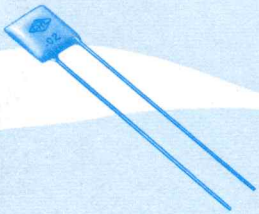

electronic components catalog 31

capacitors, controls, switches, packaged electronic circuits

Centralab

CRL

B. J. DeJARNATT WHOLESALE CO.
515 N. HUNTER STREET TELEPHONE HO. 4-4831
STOCKTON 3, CALIFORNIA

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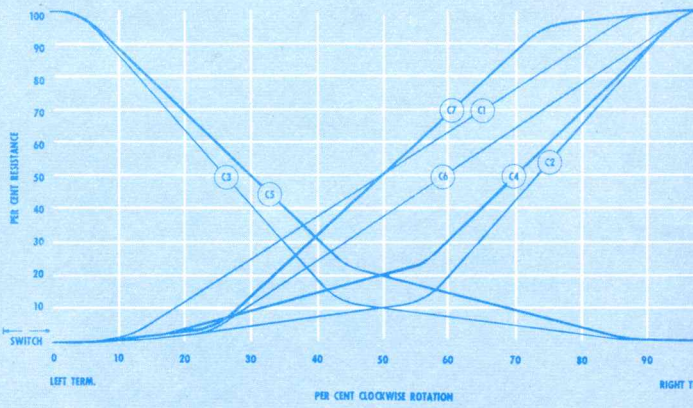
control taper charts . . .

STANDARD RESISTANCE CURVES



C-1 Linear, has uniform resistance change from either end. TV uses: Hor. & Vert. Centering; Hor. & Vert. Hold; Hor. Drive; Vert. Linearity; Focus; Brightness; Height; Contrast.

C-2 Semi-log (audio) 10% center. Used for Volume or Tone.

C-3 Right-hand semi-log. Reverse of C-2. Decreases with clockwise rotation.

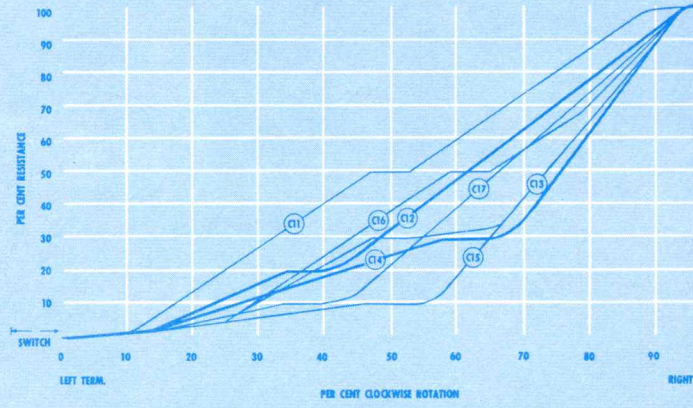
C-4 Modified log with 20% center. Used principally as Volume Control, also as Tone Control.

C-5 Right-hand modified log with 20% center. Reverse of C-4. Decreases with clockwise rotation.

C-6 Modified log with 40% center. Used as Volume Control or. Antenna shunt and "C" bias.

C-7 Symmetrical-straight line with slow resistance change at either end. Used principally as Tone Control.

STANDARD TAPPED RESISTANCE CURVES



C-11 Taper tapped at 50% rotation, 50% resistance. Used as Tone Control or in TV for Vert. and Hor. Centering.

C-12 Taper tapped at 37½% rotation, 20% resistance. Used principally as Volume Control with Tone compensating tap.

C-13 Taper tapped at 50% rotation, 30% resistance. Used principally as Volume Control with Tone compensating tap.

C-14 Taper tapped at 62% rotation, 30% resistance. Used principally as Volume Control with Tone compensating tap.

C-15 Taper tapped at 50% rotation, 10% resistance. Used principally as Volume Control with Tone compensating tap.

C-16 Taper tapped at 62% rotation, 50% resistance. Used principally as Volume Control with Tone compensating tap.

C-17 Taper tapped at 37½% rotation, 10% resistance. Used principally as Volume Control with Tone compensating tap.

Centralab®

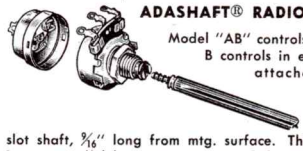
900 East Keefe Avenue, Milwaukee 1, Wisconsin *In Canada:* 669 Bayview Ave., Toronto, Ontario

CONTROLS

UNIVERSAL SHAFT RADIOHMS®

Model "B" controls, carbon, ½ watt, 15/16" diam., 7/16" deep. Breakdown voltage 900 VAC-RMS to ground. Shaft ¼" diam. 3⅜" long from mtg. surface; UNIVERSAL fluted knurled type shaft — will fit knurl, shallow flat, deep flat, slotted, or round applications. Bushing ⅜" long, ⅜" — 32 thrd. equipped with mounting nut. Can easily be converted to switch type by snapping on a "KR" switch listed on next page.

ADASHAFT® RADIOHMS®



Model "AB" controls are identical to Model B controls in every respect except for attachable shaft construction thru use of a locking "C" ring attached to a stub, screwdriver slot shaft, 9/16" long from mtg. surface. This stub can be used as is or extended by using any one of the 14 AK shaft styles shown on next page. Can easily be converted to switch type by snapping on a "KR" switch listed on next page.

PLAIN TYPE

Ohms.	Taper	Model B Cat. No.	Model AB Cat. No.
100	C-1	B-1	AB-1
200	C-1	B-2	AB-2
500	C-1	B-4	AB-4
750	C-5	B-415	AB-415
1,000	C-1	B-5	AB-5
1,000	C-5	B-505	AB-505
1,500	C-5	B-515	AB-515
2,000	C-1	B-6	AB-6
2,500	C-1	B-7	AB-7
2,500	C-2	B-702	AB-702
2,500	C-5	B-705	AB-705
3,000	C-1	B-8	AB-8
4,000	C-1	B-9	AB-9
5,000	C-1	B-10	AB-10
5,000	C-2	B-11	AB-11
5,000	C-5	B-12	AB-12
7,500	C-1	B-13	AB-13
10K	C-1	B-14	AB-14
10K	C-2	B-15	AB-15
10K	C-4	B-18	AB-18
10K	C-5	B-17	AB-17
10K	C-6	B-16	AB-16
15K	C-5	B-19	AB-19
15K	C-6	B-20	AB-20
20K	C-1	B-22	AB-22
20K	C-5	B-23	AB-23
20K	C-6	B-24	AB-24
25K	C-1	B-26	AB-26
25K	C-2	B-25	AB-25
25K	C-4	B-29	AB-29
25K	C-5	B-27	AB-27
25K	C-6	B-28	AB-28
50K	C-1	B-31	AB-31
50K	C-2	B-32	AB-32
50K	C-5	B-34	AB-34
75K	C-1	B-35	AB-35
75K	C-5	B-36	AB-36
100K	C-1	B-40	AB-40
100K	C-2	B-41	AB-41
150K	C-1	B-43	AB-43
150K	C-2	B-44	AB-44
200K	C-1	B-46	AB-46
250K	C-1	B-50	AB-50
250K	C-2	B-51	AB-51
250K	C-5	B-52	AB-52
500K	C-1	B-59	AB-59
500K	C-2	B-60	AB-60
500K	C-3	B-613	AB-613
500K	C-4	B-58	AB-58
500K	C-5	B-61	AB-61
500K	C-6	B-616	AB-616
500K	C-7	B-617	AB-617
750K	C-1	B-66	AB-66
1 Meg.	C-1	B-69	AB-69
1 Meg.	C-2	B-70	AB-70
1 Meg.	C-4	B-744	AB-744
1 Meg.	C-5	B-68	AB-68
1 Meg.	C-7	B-697	AB-697
1.5 Meg.	C-1	B-742	AB-742
2 Meg.	C-1	B-75	AB-75
2 Meg.	C-2	B-76	AB-76
2 Meg.	C-5	B-77	AB-77
2.5 Meg.	C-1	B-83	AB-83
3 Meg.	C-1	B-84	AB-84
3 Meg.	C-2	B-85	AB-85
3 Meg.	C-5	B-855	AB-855
4 Meg.	C-1	B-86	AB-86
4 Meg.	C-2	B-862	AB-862
5 Meg.	C-1	B-87	AB-87
5 Meg.	C-2	B-88	AB-88
7 Meg.	C-7	B-89	AB-89
7.5 Meg.	C-1	B-90	AB-90
10 Meg.	C-1	B-98	AB-98

SINGLE TAP

Ohms.	Taper	Tap	Cat. No.	Cat. No.
50K	C-11	Tap-25K	BT-33	ABT-33
100K	C-11	Tap-50K	BT-39	ABT-39
200K	C-11	Tap-100K	BT-47	ABT-47
250K	C-11	Tap-125K	BT-53	ABT-53
250K	C-12	Tap-50K	BT-54	ABT-54
250K	C-13	Tap-75K	BT-55	ABT-55
250K	C-16	Tap-125K-62½% Rot.	BT-56	ABT-56
350K	C-12	Tap-70K	BT-57	ABT-57
500K	C-11	Tap-250K	BT-65	ABT-65
500K	C-12	Tap-100K	BT-66	ABT-66
500K	C-13	Tap-150K	BT-67	ABT-67
500K	C-15	Tap-50K-50% Rot.	BT-63	ABT-63
500K	C-16	Tap-250K-62½% Rot.	BT-64	ABT-64
500K	C-17	Tap-50K-37½% Rot.	BT-62	ABT-62
1 Meg.	C-11	Tap-500K	BT-71	ABT-71
1 Meg.	C-12	Tap-200K	BT-72	ABT-72
1 Meg.	C-13	Tap-300K	BT-73	ABT-73
1 Meg.	C-16	Tap-500K-62½% Rot.	BT-74	ABT-74
1 Meg.	C-17	Tap-100K	BT-7417	ABT-7417
2 Meg.	C-11	Tap-1 Meg.	BT-78	ABT-78
2 Meg.	C-12	Tap-400K	BT-79	ABT-79
2 Meg.	C-13	Tap-600K	BT-80	ABT-80
2 Meg.	C-15	Tap-200K	BT-81	ABT-81
2 Meg.	C-16	Tap-1 Meg.-62½% Rot.	BT-82	ABT-82
3 Meg.	C-15	Tap-300K-50% Rot.	BT-8515	ABT-8515
3 Meg.	C-17	Tap-300K-37½% Rot.	BT-8517	ABT-8517

DUAL TAP TYPE

Ohms.	Taps	Cat. No.	Cat. No.
15K	Taps-5Kand 10K	BT-154	ABT-154
250K	Taps-50K and 125K	BT-155	ABT-155
250K	Taps-41K and 82K	BT-156	ABT-156
500K	Taps-82K and 165K	BT-159	ABT-159
500K	Taps-100K and 250K	BT-160	ABT-160
1 Meg.	Taps-165K and 330K	BT-164	ABT-164
1 Meg.	Taps-200K and 500K	BT-165	ABT-165
1.5 Meg.	Taps-250K and 500K	BT-167	ABT-167
2 Meg.	Taps-250K and 500K	BT-174	ABT-174
2 Meg.	Taps-400K and 1 Meg.	BT-175	ABT-175
2.5 Meg.	Taps-300K and 625K	BT-176	ABT-176
3.3 Meg.	Taps-330K and 1650K	BT-180	ABT-180

MODEL B SWITCH TYPE RADIOHMS

Factory assembled switch type units are universal D.P.S.T., for S.P.S.T., D.P.S.T., or 3 wire usage.

Ohms.	Taper	Catalog Number
500K	C-2	B-60-S
1 Meg.	C-2	B-70-S

CONTROL PRICES

All B Units ..... **List Price $1.55**
B-60-S and B-70-S ..... **List Price 2.25**
All BT Units ..... **List Price 2.25**
All AB Units ..... **List Price 1.40**
All ABT Units ..... **List Price 2.10**

Centralab®
900 East Keefe Avenue, Milwaukee 1, Wisconsin
In Canada: 669 Bayview Ave., Toronto, Ontario

CONTROLS *(Cont'd)*

TYPE KR FASTATCH® SWITCHES

Circuit	Rating	Cat. No.	List Price
SPST	5 amp., 125 v.a.c.	KR-1	$ .70
DPST	3 amp., 125 v.a.c.	KR-2	.85
DP (1 Pole "on" 1 Pole "off")	3 amp., 125 v.a.c.	†KR-3	.85
SPST	15 amp., 10 v.d.c.	KR-4	1.10
SPST	15 amp., 10 v.d.c.	*KR-6	1.10
DPST	15 amp., 10 v.d.c.	KR-7	1.10

*(With Dummy Lug)
†(Can be used as SPDT by adding a jumper wire between terminals 1 and 3)

SWITCH SHIELDS

For use with Switch Type units where AC shielding is required. Packaged 5 per carton....Cat. No. KR-5 — List Price: $1.20/Pkg.

ADASHAFT SHAFTS — COUPLERS — SHAFT EXTENSIONS

Cat. No.	Description	List Price Per Pkg.
AK-1	Fingertip knurl and screwdriver slot ⅜" long from bushing	$1.00/5
AK-2	1-9/16" long from bushing, with .078"-wide slot	1.50/5
AK-7	3" long from bushing with full length .156" flat	1.50/5
AK-8	3/16" diameter, full round, 2⅛" long from bushing	1.50/5
AK-9	¼" diameter, full round, 3¼" long from bushing	1.50/5
AK-10	10" long from bushing, with flat mill .216" x 4-5/16"	3.00/5
AK-11	Universal, including split knurl, flat, and slot, 4" long from bushing	1.85/5
AK-16	Coupler adaptable to ¼" and ¼" or ¼" and 3/16" shafts	2.50/5
AK-19	Insulating nylon, 2-1/16" long from bushing	3.25/5
AK-21	Shaft extension 4" long, ¼" diam., .218" flat	3.50/5
AK-22	Shaft extension 4" long, ¼" diam., .154" flat	3.50/5
AK-23	Shaft extension 4" long, 3/16" diam., .172" flat	3.50/5
AK-24	¼" diameter, full round, ⅜" long	1.00/5
AK-25	¼" diameter, flatted to .218", ⅜" long	1.00/5
AK-26	Adapter bushing, ⅜"-32 thd. to 7/16"-28 thd., with nuts and lockwasher, length 1⅜" long	.75 ea.
AK-28	Auto adapter bushing, ⅜" to ½"-28 thd., with nuts and lockwasher, length 2¼"	.75 ea.
AK-30	Grounding lug, grounds bushing to terminal	.50/doz.

MODEL SR AND STR STEREO — TWIN

Snap-on rear units added to Model B or AB Controls provide an unlimited variety of twin control combinations. Easily converts to switch type by snapping on KR Fastatch® switch. ½ watt, 15/16" diameter.

Model SR Plain Type

Ohms.	Taper	Cat. No.	Ohms.	Taper	Cat. No.
7500	C-1	SR-13	500K	C-4	SR-58
25K	C-1	SR-26	500K	C-7	SR-617
50K	C-1	SR-31	1 Meg.	C-1	SR-69
100K	C-1	SR-40	1 Meg.	C-2	SR-70
100K	C-2	SR-41	2 Meg.	C-1	SR-75
250K	C-1	SR-50	2 Meg.	C-2	SR-76
250K	C-2	SR-51	3 Meg.	C-1	SR-84
500K	C-1	SR-59	3 Meg.	C-2	SR-85
500K	C-2	SR-60	5 Meg.	C-1	SR-87
500K	C-3	SR-613	5 Meg.	C-2	SR-88

Model STR Single Tap

Ohms.	Taper	Cat. No.	Tap
500K	C-11	STR-65	Tap-250K
500K	C-12	STR-66	Tap-100K
500K	C-16	STR-64	Tap-250K
1 Meg.	C-11	STR-71	Tap-500K
1 Meg.	C-16	STR-74	Tap-500K

Model STR Dual Tap

Ohms.	Taper	Cat. No.	Tap
1.5 Meg.	....	STR-167	250K & 500K
3.3 Meg.	....	STR-180	330K & 1650K

List Price $1.90

SNAP-TITE* RADIOHMS® For speed-servicing of "hidden" or TV rear controls

The revolutionary new Centralab control with amazing time-saving features:

- SNAP-TITE is installed by just *pushing* it into the chassis mounting hole. It holds itself in place.
- No tools needed for mounting; no nuts, lockwashers, or any other hardware. A clean, fast replacement.
- Six spring clips grip the panel for positive, non-twist mounting. Replaces any standard control type. (One or two locating lugs.)
- Shaft is molded, high-strength polystyrene, fingertip knurled and slotted for screwdriver adjustment. Extends ½" from face of mounting surface.

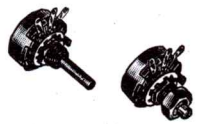
The ten values below will replace 75% of current rear-end or "hidden" television controls:

Ohms	Taper	Cat. No.	Ohms	Taper	Cat. No.
5000	C-1	BX-10	1 Meg.	C-1	BX-69
50K	C-1	BX-31	1½ Meg.	C-1	BX-742
100K	C-1	BX-40	2 Meg.	C-1	BX-75
200K	C-1	BX-46	2½ Meg.	C-1	BX-83
500K	C-1	BX-59	3 Meg.	C-1	BX-84

List Price $0.85 each

*Trademark

MODEL JP AND JL RADIOHM®



Designed originally to meet rugged military specifications. These miniature controls are completely closed — can be sealed or potted — making them ideal for miniature amplifiers, geophysical equipment, guided missiles, and other application where small size, high quality and dependability are primary factors. Rated at ¼ watt, carbon, .671" diameter. Shaft: Model JP — plain round ⅛" diam., ¾" long from mtg. surface. Model JL — screwdriver slotted ⅛" diam., ½" long from mtg. surface. Model JP has ¼" — 32 thread bushing, ¼" long. Model JL has split locking bushing ¼" — 32 thread, ⅜" long with jam nut. Both types equipped with lockwasher and mtg. nut.

Ohms.	Tol.	Taper	Catalog Number	Catalog Number
1000	20%	C-1	JP-102	JL-102
1500	20%	C-1	JP-152	JL-152
2500	20%	C-1	JP-252	JL-252
5000	20%	C-1	JP-502	JL-502
7500	20%	C-1	JP-752	JL-752
10K	20%	C-1	JP-103	JL-103
10K	20%	C-2	JP2-103	.....
25K	20%	C-1	JP-253	JL-253
50K	20%	C-1	JP-503	JL-503
100K	20%	C-1	JP-104	JL-104
250K	20%	C-1	JP-254	JL-254
500K	20%	C-1	JP-504	JL-504
500K	20%	C-2	JP2-504	.....
1 Meg.	20%	C-1	JP-105	JL-105
2.5 Meg.	20%	C-1	JP-255	JL-255

List Price: JP — $5.85; JL — $6.10

KNOBS

KC-3	knob	Black
KC-4	knob	White
KC-5	knob	Red

KC knobs — $1.50/5

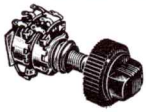
Centralab®
CRL
900 East Keefe Avenue, Milwaukee 1, Wisconsin *In Canada:* 669 Bayview Ave., Toronto, Ontario

CONTROLS (Cont'd)

THE COMPENTROL®

The COMPENTROL is a volume control and special Packaged Electronic Circuit network designed to better reproduce the apparent bass and treble response in radio sets, audio amplifiers, or phono combinations when volume is at low level.

SENIOR COMPENTROL® WITH LEVEL-SET



Designed for use in hi-fi amplifiers, or preamplifiers, a compact dual concentric unit to replace standard gain controls, permits any degree of compensation at low listening levels where compensation is required. For high level (or flat response) listening, compensation can be completely removed. Universal (replaces 250K to 2 Meg.) control. Supplied with dual knob.

CAT. NO. C2-100.....Audio Net $4.50

FASTATCH® SENIOR COMPENTROL®
With High-Boost PEC Plates

The ultimate in compensated control for the advanced hi-fi owner. The Senior Compentrol is furnished as two separate units that can be snapped together after shafts are cut to any length up to 3¾" from mounting surface. Compensating PEC plate is pre-wired to rear unit. Two high-frequency boost plates are furnished for medium or substantial boosting of highs. Contains knobs and complete instructions.

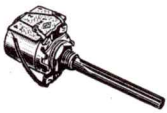
CAT. NO. C2-200.....Audio Net $4.50

COMPENSATED TONE CONTROL

The C3-300 is a compensated tone control as used in Baxandall circuit. Not to be confused with the C2-100 and C2-200 Compensated *volume* controls.

CAT. NO. C3-300.....Audio Net $4.50

JUNIOR COMPENTROLS



The C1-60 and C1-70 Compentrol is available in 500K and 1 Meg. plain or switch type for use in radios, phonographs or phono-radio combinations. SPST line switch is optional. An insulated switch shield is furnished for AC shielding where space permits.

Ohms.	Type	Cat. No.
500K	Plain Type	C1-60
500K	Switch Type	C1-60-S
1 Meg.	Plain Type	C1-70
1 Meg.	Switch Type	C1-70-S

Audio Net — Plain.....$2.75 ea. Switch.....$3.30 ea.

STEREO TWIN COMPENTROLS

These stereo twin compentrols are designed especially for stereo preamplifiers and stereo control centers. Synchronized compensation is provided for both channels in a stereo system.

FRONT Ohms.	REAR Ohms.	Type	Cat. No.
500K	500K	Plain	C2-60
1 Meg.	1 Meg.	Plain	C2-70

Audio Net $4.50

MODEL "SM" SERIES (Switch Type Only)

Model SM is a precision made sub-miniature unit designed primarily for transistor circuit applications. Rated 1/10 watt. 0.502" diam. without knob — 19/32" with knob. Stud mounted.

Ohms.	Taper	Catalog Number
2,500	C-2	SM2-252-S
5,000	C-2	SM2-502-S
10K	C-2	SM2-103-S
25K	C-2	SM2-253-S

List Price $6.25

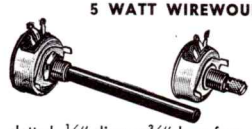
MODEL B16 SERIES

Miniature controls designed originally for the hearing aid industry. Rated 1/10 watt, 5/8" diam. without knob — 23/32" with knob. ¼" total thickness with knob. Control including switch complete within knob.

Ohms.	Taper	Catalog Number Plain	Catalog Number Switch
500	C-1	B16-107	.....
1,000	C-1	B16-109	.....
2,500	C-1	B16-111	.....
2,500	C-2	B16-112	B16-212
5,000	C-1	B16-113	.....
5,000	C-2	B16-114	B16-214
10K	C-1	B16-115	.....
10K	C-2	B16-116	B16-216
25K	C-2	B16-117	B16-217
50K	C-1	B16-119	.....
100K	C-1	B16-121	.....
250K	C-1	B16-123	.....
500K	C-2	B16-118	B16-218
1 Meg.	C-2	B16-120	B16-220
2 Megs.	C-2	B16-122	B16-222
3 Megs.	C-2	B16-124	B16-224
5 Megs.	C-2	B16-128	B16-228

List Price: Plain Type $2.50; Switch Type $4.00.

5 WATT WIREWOUND RADIOHMS®



Rated at full 5 watts. 1 3/32" diam. x 9/16" deep. Linear taper. Shaft (WW-Style) full round, aluminum, ¼" diam. x 3" long from mtg. surface. (WN-Style) Finger tip knurl, screwdriver slotted, ¼" diam. x ¾" long from mtg. surface. Bushing ⅜" long — ⅜" — 32 thrd. Mtg. nut and lockwasher incl.

Ohms.	WW Cat. No.	WN Cat. No.	List Price	Ohms.	WW Cat. No.	WN Cat. No.	List Price
1	WW-010	WN-010	$1.90	400	WW-401	WN-401	$1.90
2	WW-020	WN-020	1.90	500	WW-501	WN-501	1.90
3	WW-030	WN-030	1.90	750	WW-751	WN-751	1.90
4	WW-040	WN-040	1.90	1000	WW-102	WN-102	1.90
5	WW-050	WN-050	1.90	1500	WW-152	WN-152	1.90
6	WW-060	WN-060	1.90	2000	WW-202	WN-202	1.90
8	WW-080	WN-080	1.90	2500	WW-252	WN-252	1.90
10	WW-100	WN-100	1.90	3000	WW-302	WN-302	1.90
15	WW-150	WN-150	1.90	4000	WW-402	WN-402	1.90
20	WW-200	WN-200	1.90	5000	WW-502	WN-502	1.90
25	WW-250	WN-250	1.90	7500	WW-752	WN-752	1.90
30	WW-300	WN-300	1.90	10K	WW-103	WN-103	1.90
40	WW-400	WN-400	1.90	15K	WW-153	WN-153	1.90
50	WW-500	WN-500	1.90	20K	WW-203	WN-203	2.50
60	WW-600	WN-600	1.90	25K	WW-253	WN-253	2.50
75	WW-750	WN-750	1.90	30K	WW-303	WN-303	2.50
100	WW-101	WN-101	1.90	40K	WW-403	WN-403	3.00
200	WW-201	WN-201	1.90	50K	WW-503	WN-503	3.00
250	WN-251	WN-251	1.90	75K	WW-753	WN-753	4.10
300	WW-301	WN-301	1.90	100K	WW-104	WN-104	4.10

Centralab®
CRL
900 East Keefe Avenue, Milwaukee 1, Wisconsin
In Canada: 669 Bayview Ave., Toronto, Ontario

CONTROLS (Cont'd)

FASTATCH® DUAL RADIOHMS®

Any dual concentric you need is instantly available — just select front and rear units with proper resistance and taper, cut shafts to length, "snap" together — snap on "KR" switch if needed and your control is assembled. Carbon units are ½" watt, 15/16" diam.; Wirewound units are 5 watts, 1 3/32" diam. Voltage breakdown 900 VAC-RMS to ground. (AK-26 or AK-28 adapter bushings can be added for auto radio applications, Hi-Fi speaker cabinets, etc.)

FASTATCH® — FRONT UNIT (Prefixes F1, F3, F7)

Shaft .265" diam., 3 3/16" from mtg. surface. Hollow brass shaft with universal double flat mill. Can be used as a single flat, double flat or round shaft. Scored for single or double slotted applications. Bushing ⅜" long, ⅜" x 32 thread.

FASTATCH® — Rear Units (Prefixes R2, R4)

Shaft .187" diam., 3¾" long from mtg. surface with .156" flat. Fits .187" or .202 push on knobs without alteration — spring adapter furnished for other knob types.

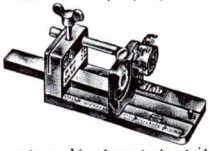
Ohms.	Taper or Tap	Front Unit Carbon	Front Unit Wirewound	Rear Unit Carbon
250	C-1	....	F7-50	....
300	C-1	F1- 0	F7-53	....
500	C-1	F1- 1	F7-59	R2- 1
750	C-1	F1- 2	F7-65	....
750	C-5	F3- 2	....	....
750	500	F1- 3	....	....
1000	C-1	F1- 4	F7-68	R2- 4
1000	C-5	F1- 5	....	R2- 5
1500	C-1	F1- 6	F7-72	R2- 6
1500	C-5	F1- 7	....	R2- 7
1500	187 and 375	F1- 8	....	....
2000	C-1	F1- 9	F7-75	R2- 9
2000	C-5	F1-10	....	R2-10
2000	1500	F1-11	....	....
2000	250 and 500	F3-11	....	....
2250	C-1	....	F7-78	....
2500	C-1	F1-12	F7-82	R2-12
2500	C-2	....	....	R2-13
2500	C-3	....	....	R2-14
2500	C-5	F1-15	....	....
2500	500	F1-16	....	....
2500	625	F1-17	....	....
3000	C-1	....	F7-85	....
3500	C-5	....	....	R2-18
5000	C-1	F1-19	F7-90	R2-19
5000	C-3	F1-20	....	....
5000	C-5	F1-21	....	....
7500	C-1	....	....	R2-22
10K	C-1	F1-23	F7-96	R2-23
10K	C-2	F1-24	....	....
10K	C-5	F1-25	....	R2-25
15K	5K and 10K	F1-26	....	....
25K	C-1	F1-27	....	R2-27
35K	C-1	F1-28	....	....

Ohms.	Taper or Tap	Front Unit	Rear Unit
50K	C-1	F1-29	R2-29
75K	C-1	F1-30	R2-30
100K	C-1	F1-31	R2-31
125K	C-1	F1-32	R2-32

Ohms.	Taper or Tap	Front Unit	Rear Unit
200K	C-1	F1-33	R2-33
250K	C-1	F1-34	R2-34
250K	C-2	F1-35	R2-35
250K	C-4	....	R2-36
250K	C-5	F1-37	R2-37
250K	75K	F3-37	R4-37
330K	66K	....	R2-38
350K	C-2	F1-39	....
500K	C-1	F1-40	R2-40
500K	C-2	F1-41	R2-41
500K	C-4	F1-42	R2-42
500K	250K	F3-42	R4-42
500K	100K	F1-44	R2-44
500K	150K	....	R2-45
500K	250K	....	R2-46
500K	50K	F1-47	R2-47
500K	150K	....	R2-48
750K	C-2	F1-49	....
850K	C-1	F1-50	....
1 Meg.	C-1	F1-51	R2-51
1 Meg.	C-2	F1-52	R2-52
1 Meg.	C-3	F1-53	R2-53
1 Meg.	C-4	F1-54	R2-54
1 Meg.	C-7	F1-55	....
1 Meg.	500K	F1-56	R2-56
1 Meg.	200K	....	R2-57
1 Meg.	250K	....	R2-58
1 Meg.	300K	F1-59	R2-59
1 Meg.	500K	....	R2-60
1 Meg.	100K	....	R2-61
1 Meg.	300K	....	R2-62
1 Meg.	200K and 500K	F1-63	....
1½ Meg.	C-1	F1-64	R2-64
1½ Meg.	C-7	F1-65	....
1½ Meg.	250K and 500K	....	R2-66
2 Meg.	C-1	F1-67	R2-67
2 Meg.	C-2	F1-68	R2-68
2 Meg.	C-4	F1-69	....
2 Meg.	C-5	....	R2-70
2 Meg.	C-7	F1-71	....
2 Meg.	1 Meg.	....	R2-72
2 Meg.	400K	F1-73	R2-73
2 Meg.	200K	F1-74	R2-74
2 Meg.	600K	....	R4-74
2 Meg.	1 Meg.	F1-75	R2-75
2½ Meg.	C-1	F1-76	R2-76
2½ Meg.	C-7	F1-77	R2-77
3 Meg.	C-1	F1-78	R2-78
3 Meg.	C-2	F1-79	R2-79
3 Meg.	1½ Megs.	....	R2-80
3 Meg.	900K	F1-81	R2-81
4 Meg.	C-7	F1-82	....
5 Meg.	C-7	F1-83	R2-83
5 Meg.	C-3	....	R2-84

Compentrol Rear Unit with Plate.....RC2-200

List Price: F1, F3, R2, D4 — $1.90; F7 — $2.25; RC2-200 — $2.75.



SK-2 SHAFT-KUT TOOL

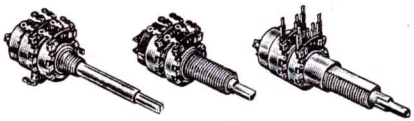
The SK-2 is a precision instrument guaranteed to make a simple job of cutting shafts to the exact size needed. With this tool any standard solid or hollow shaft can be measured and cut accurately to 1/64 of an inch. Includes mounting screws and complete operating instructions . . . $4.95 NET.

Centralab®
CRL
900 East Keefe Avenue, Milwaukee 1, Wisconsin
In Canada: 669 Bayview Ave., Toronto, Ontario

CONTROLS (Cont'd)

AUTO RADIO EXACT REPLACEMENT CONTROLS

A completely new line of exact replacement controls for auto radios.



Year	Radio Model No.	Original Part No.	Centralab Cat. No.	List Price
BUICK				
42, 56-53	BK2A, BK3A6	18B512084	M/U-3	$2.95
50-53	980868, 980899 980847, 980979 980980, 981111 981320, 981321 981322, 981323	7263119	BD-50/3	3.50
54	981550, 981551	7264309	BD-54/5	3.50
54-56	6M-12	18K533457	M/U-4	2.95
55	981651, 981652	7265742	BD-54/5	3.50
56	981707, 981708	7266996	BD-56	3.50
57	981813, 981814	7268944	BD-57	3.50
57	7MX	18B540768	M/U-5	2.95
58	981902, 981903	7271329	BD-58	3.50
CHEVROLET				
49-50	986389, 986241	1218641	CD-49/0-A	3.50
51-52	986516	1219708	CD-51-A	3.50
51-52	CT2A, CT2M; CT2A6, CT52M6	18B512084	M/U-3	2.95
53-54	986669	7264211	CD-53/4-A	3.50
53-56	6M	18K533457	M/U-4	2.95
55	987087	7265265	CD-55	3.50
55-56	987088, 987366	7265220	CD-55/6-B	3.50
55-57	987086, 987364 3725156 (Corvette)	7265302	CD-55/6-A	3.50
56	987368	7266842	CD-56	3.50
57	987577	7269211-1220961	CD-57-A	3.50
57	987575, 987693	7269199-1220963	CD-57-C	3.50
57	987573	7269186-1220962	CD-57-B	3.50
57	7MX	18B540768	M/U-5	2.95
58	987727	7270479	CD-58-A	3.50
58	987724	7270450	CD-58-B	3.50
CHEVROLET TRUCK				
48-53	GMT2A, GMT2M, GMT3A6	18B512084	M/U-3	2.95
54	986771	7264211	CD-53/4-A	3.50
DESOTO				
57	MOPAR 846, 919, 919HR	18B539819	DEM-57	2.95
58	MOPAR 923	18B539819	DEM-57	2.95
DODGE				
57	MOPAR 845, 918	18K539820	DOM-57	2.95
DODGE TRUCK				
53	610T	18K512740	M/U-1	2.95
FORD				
49-50	M1, M1A, M1A1	L222808	FB-49/0	2.95
50	OMF	18B591266	FM-50	2.95
51	M2	L219586-2	FB-51	2.95
51	1MF	18B501153	FM-51	2.95
52-53	M4, M4A	L219586-3	FB-52/3	2.95
52-53	2MF, 3MF	18B511635	FM-52/3	2.95
54	M4B, M4BA, M4BP	L219586-7	FB-54	2.95
54	4MF	18B530018	FM-54	2.95
55	5BF, R5BF	L219656-1	FB-55	1.95
55	5MF, 5MF8	18B531299	FM-55	1.95
56	R6BF	L219681-1	FB-56	2.95
56	66MF, 66MFP, 69MF	18B534483	FM-56	2.95
57	R75BF	2090035-1	FB-57	2.95
57	75MF	18K539059	FM-57	2.95
57-58	R74BF, R84BF	2090035-2	FB-58	2.95
57-58	74MF, 84MF	18B541819	FM-57/8	2.95
FORD TRUCK				
57	R74BT	2090253-1	FB-57-T	1.95
GMC TRUCK				
48-53	GMT2A, GMT2M, GMT3A6	18B512084	M/U-3	2.95
54-58	223396, 2233398	7264211	CD-53/4-A	3.50
HENRY J				
51-53	HJ2A, HJ2M, HP3A6, HJ3M6	18K512740	M/U-1	2.95
KAISER				
51-53	KR2A, KR2M, KR3A6	18B512084	M/U-3	2.95
OLDSMOBILE				
51	982700	7260294	OD-51-A	3.50
51-52	OE2A, OE2M, OE2A6	18B512084	M/U-3	2.95
53	983004	7263540	OD-53-A	3.50
54-56	983091, 983205, 983336	7264128	OD-54/6	3.50
54-56	6M-12	18K533457	M/U-4	2.95
57	989002	7268847	OD-57-B	3.50
57	989001	7269055	OD-57-A	3.50
58	989127, 989128	7270679	OD-58	3.50
PACKARD				
51-53	PD2A, PD2M	18B512084	M/U-3	2.95
PLYMOUTH				
56	MOPAR 916, 916HR	18B536704	PM-56	2.95
57	MOPAR 849	18B540376	PM-57	1.95
57	P5701, MOPAR 848	33-5580-12	PP-57	1.95
58	MOPAR 854	18B560415	PM-58	1.95
PONTIAC				
46-52	PC2A6, PC2M6	18K512740	M/U-1	2.95
55-56	6M-12	18K533457	M/U-4	2.95
56	988623	7268308	POD-56	3.50
57	988671	7270189	POD-57	3.50
57	7MX	18B540768	M/U-5	2.95
58	988823	7270939A	POD-58-A	3.50
58	988822	7271446	POD-58-B	3.50
STUDEBAKER				
50-53	SR2A6, SR2M6	18K512740	M/U-1	2.95
53	SR3A6	18B512084	M/U-3	2.95
53-56	6M, 6M-12	18K533457	M/U-4	2.95
57	7MX	18B540768	M/U-5	2.95
UNIVERSAL				
54-56	5M, 5M-12	18K533457	M/U-4	2.95
VOLKSWAGON				
53-56	6M	18K533457	M/U-4	2.95
WILLYS				
56	694866	7264211	CD-53/4-A	3.50

TYPE SP ON/OFF SWITCHES FOR AUTO RADIO REPLACEMENT

SP-1, Replacement Switch for
1951-52-53-54 Plymouth, Dodge, Desoto and Chrysler

SP-4, Replacement Switch for
1946 thru 1956 Ford, Lincoln, Mercury, Plymouth, Dodge, Desoto and Chrysler.

SP-6, Replacement Switch for
1955-56 Lincoln, Mercury
1956-57 Ford Thunderbird
1957-58 Ford
1958 Mercury

SP-7, Replacement Switch for
1942, 46-47-48 Plymouth, Dodge, Desoto and Chrysler, MOPAR No. 802

SP-8, Replacement Switch for
1956-57 Mercury
1957 Lincoln

List Price: SP-1, SP-4, SP-7, SP-8 — $0.75.

List Price: SP-6 — $1.00.

Centralab®

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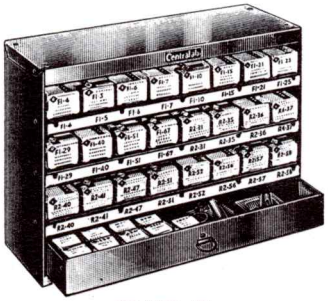
CONTROL KITS



FDK-100 Kit
Fastatch® Dual Concentric Controls

The FDK-100 Kit provides a handy stock of the 12 most popular front units and the 12 most popular rear units in the "Fastatch" control system plus a stock of "Fastatch" line switches. Over 720 different dual concentric control combinations, including those with a switch can be assembled from this compact stock. Controls and switches snap together in a jiffy. Kit packed in sturdy steel shelf cabinet as illustrated, labeled and set up ready to use.

Front Units

Ohms.	Taper	Cat. No.	Qty.
1000	C-1	F1-4	1
1000	C-5	F1-5	1
1500	C-1	F1-6	1
1500	C-5	F1-7	1
2000	C-5	F1-10	1
2500	C-5	F1-15	1
5000	C-5	F1-21	1
10K	C-5	F1-25	1
50K	C-1	F1-29	1
500K	C-1	F1-40	1
1 Meg.	C-1	F1-51	1
2 Meg.	C-1	F1-67	1

Rear Units

Ohms.	Taper	Cat. No.	Qty.
100K	C-1	R2-31	1
250K	C-2	R2-35	1
250K	C-4	R2-36	1
250K	C-14 (tap 75K)	R4-37	1
500K	C-1	R2-40	1
500K	C-2	R2-41	1
500K	C-17 (tap 50K)	R2-47	1
1 Meg.	C-1	R2-51	1
1 Meg.	C-2	R2-52	1
1 Meg.	C-11 (tap 500K)	R2-56	1
1 Meg.	C-12 (tap 200K)	R2-57	1
1 Meg.	C-13 (tap 250K)	R2-58	1

Type KR Fastatch® Switches

Circuit	Rating	Cat. No.	Qty.
SPST	5 amp., 125 V.A.C.	KR-1	5
DPST	3 amp., 125 V.A.C.	KR-2	2
DP { 1 pole "on" / 1 pole "off"	3 amp., 125 V.A.C.	KR-3	1
SPST	15 amp., 10 V.D.C.	KR-4	1
DPST	15 amp., 10 V.D.C.	KR-7	1

Adapter Bushings (for auto radios)

	Cat. No.	Qty.
⅜" to 7/16" — 28 thread with nuts and lockwashers	AK-26	1
⅜" to ½" — 28 thread with nuts and lockwashers	AK-28	1

Includes steel cabinet. **List Price: $54.50.**

BK-100 Kit
Universal Shaft Radiohms®

The BK-100 kit contains 24 type B controls in the 12 fastest moving values. These controls plus 10 KR "Fastatch" line switches provides a versatile balanced stock for service needs. Set up, labeled, ready to use.

Ohms	Taper	Cat. No.	Qty.
1000	C-1	B-5	1
5000	C-1	B-10	1
10K	C-1	B-14	1
50K	C-1	B-31	2
100K	C-1	B-40	2
500K	C-1	B-59	2
500K	C-2	B-60	6
1 Meg.	C-1	B-69	2
1 Meg.	C-2	B-70	4
2 Meg.	C-1	B-75	1
2 Meg.	C-2	B-76	1
5 Meg.	C-1	B-87	1

Type KR Fastatch® Switches

Circuit	Rating	Cat. No.	Qty.
SPST	5 amp., 125 V.A.C.	KR-1	6
DPST	3 amp., 125 V.A.C.	KR-2	3
DP { 1 pole "on" / 1 pole "off"	3 amp., 125 V.A.C.	KR-3	1

Includes steel cabinet. **List Price: $44.80.**

ABK-100 Kit
Adashaft Radiohms®

The ABK-100 Kit contains 24 type AB Adashaft Controls in the 10 fastest moving values. Combined with Fastatch Switches and assorted shafts, it provides a flexible stock of replacement controls, housed in a sturdy steel shelf cabinet, labeled, set up and ready to use.

Ohms	Taper	Cat. No.	Qty.
1000	C-1	AB-5	1
5000	C-1	AB-10	2
50K	C-1	AB-31	2
100K	C-1	AB-40	2
500K	C-1	AB-59	2
500K	C-2	AB-60	6
1 Meg.	C-1	AB-69	2
1 Meg.	C-2	AB-70	4
2 Meg.	C-1	AB-75	1
5 Meg.	C 1	AB-87	2

Type KR Fastatch® Switches

Circuit	Rating	Cat. No.	Qty.
SPST	5 amp., 125 V.A.C.	KR-1	5
DPST	3 amp., 125 V.A.C.	KR-2	2
DP { 1 pole "on" / 1 pole "off"	3 amp., 125 V.A.C.	KR-3	1

Plus 21 assorted shafts and Couplers.
Includes steel cabinet. **List Price: $45.35.**

WWK-100 Kit
5 Watt Wirewound Controls

The WWK-100 Kit contains 24 5-watt wirewound controls in the 14 best selling values. Packed in sturdy steel shelf cabinet, labeled and set up ready to use. Extra drawer space for expansion.

Ohms	Cat. No.	Qty.	Ohms	Cat. No.	Qty.
10	WW-100	1	1500	WW-152	2
50	WW-500	1	2000	WW-202	1
100	WW-101	3	2500	WW-252	2
200	WW-201	1	3000	WW-302	1
500	WW-501	1	5000	WW-502	3
750	WW-751	1	10K	WW-103	3
1000	WW-102	3	15K	WW-153	1

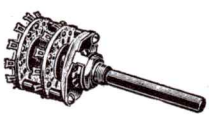
Includes steel cabinet. **List Price: $45.60.**

Centralab®
900 East Keefe Avenue, Milwaukee 1, Wisconsin In Canada: 669 Bayview Ave., Toronto, Ontario

SWITCHES

PA-1000 SERIES
MINIATURE PHENOLIC ROTARY SWITCHES

A complete line of laminated phenolic insulated rotary switches which will meet rigorous military and commercial applications. Laminated phenolic insulation, type PBE, per MIL-P-3115B. Voltage breakdown 1000 volts AC-RMS. Sections: 1½" diam., 1/16" thick. All metal parts except clips and contacts, cadmium plated to withstand 25 hour salt spray test. Bushing: 3/8" — 32 thread, 3/8" long. Shaft: 1/4" diameter full-round, 2¼" long from mtg. surface. Rated: 2 amperes at 15 volts DC; 150 milliamperes at 110 volts AC. Indexing: Positive — adjustable stop — in 30° or 60° detents.



MINIATURE SWITCHES WITH 30° INDEXING

Total Number Poles	Total Positions	Poles Per Section	Number Sections	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-11	1	1	PA-1000	PA-1001	$2.50
2	2-5	2	1	PA-1002	PA-1003	2.50
2	2-11	1	2	PA-1004	PA-1005	3.60
3	2-3	3	1	PA-1006	PA-1007	2.50
3	2-11	1	3	PA-1008	PA-1009	4.50
4	2	4	1	PA-1010	PA-1011	2.50
4	2-5	2	2	PA-1012	PA-1013	3.60
4	2-11	1	4	PA-1014	PA-1015	5.30
5	2-11	1	5	PA-1016	PA-1017	6.20
6	2-3	3	2	PA-1018	PA-1019	3.60
6	2-5	2	3	PA-1020	PA-1021	4.50
6	2-11	1	6	PA-1022	PA-1023	7.00
8	2	4	2	PA-1024	PA-1025	3.60
8	2-5	2	4	PA-1026	PA-1027	5.30
10	2-5	2	5	PA-1030	PA-1031	6.20
12	2	4	3	PA-1028	PA-1029	4.50
12	2-5	2	6	PA-1032	PA-1033	7.00

SPECIAL CIRCUITS

1	2-10	1	1	PA-1034	.....	$2.50

(Nine active contacts, all shorted to common contact in full CCW positions, and progressively opened and dropped with CW rotation.)

1	2-10	1	1	PA-1040	.....	2.50

(Nine active contacts, all open in full CCW position and progressively picked up and shorted to common contact with CW rotation.)

60° INDEXING SWITCHES

1	2-6	1	1	.....	PA-1035	$2.50
2	2-6	1	2	.....	PA-1037	3.60

SEPARATE MINIATURE PHENOLIC SECTIONS

Use with index assemblies No. PA-300, PA-301, PA-302 (except as noted) for assembly of special switches to meet your requirements.

Poles	Positions	Indexing	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-11	30°	PA-30	PA-31	$1.20
2	2-5	30°	PA-32	PA-33	1.20
3	2-3	30°	PA-34	PA-35	1.20
4	2	30°	PA-36	PA-37	1.20
1	2-5	30°	PA-38	PA-39	1.20

(All unused contacts one side of common connected and shorted out.)

1	2-11	30°	PA-40	PA-41	1.20

(All unused contacts connected and shorted out.)

1	2-10	30°	PA-43	....	1.20

(Nine active contacts, all shorted to common contact in full CCW position, and progressively opened and dropped with CW rotation.)

1	2-10	30°	PA-49	....	1.20

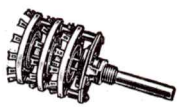
(Nine active contacts, all open in full CCW position and progressively picked up and shorted to common contact with CW rotation.)

1	2-6	60°	....	PA-45	1.20

(Use with 60° Index Assemblies PA-304 or PA-305.)

PA-2000 SERIES
MINIATURE CERAMIC ROTARY SWITCHES

A complete line of ceramic insulated rotary switches offering maximum voltage flashover, high-Q-low-loss steatite body and minimum inter-circuit capacity. Grade L-5A steatite insulation. Voltage breakdown 1500 volts AC-RMS. Sections: 1½" diam.; .100" thick. All metal parts except clips and contacts, cadmium plated to withstand 25 hour salt-spray test. Bushing: 3/8" — 32 thread, 3/8" long. Shaft: 1/4" diam. full-round, 2¼" long from mtg. surface. Rated: 2 amperes at 125 volts DC; 150 milliamperes at 110 volts AC. Indexing: Positive — adjustable stop — in 30° or 60° detents.



MINIATURE SWITCHES WITH 30° INDEXING

Total Number Poles	Total Positions	Poles Per Section	Number Sections	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-12	1	1	PA-2000	PA-2001	$3.30
2	2-6	2	1	PA-2002	PA-2003	3.30
2	2-12	1	2	PA-2004	PA-2005	4.70
3	2-5	3	1	PA-2006	PA-2007	3.30
3	2-12	1	3	PA-2008	PA-2009	6.00
4	2-6	2	2	PA-2010	PA-2011	4.70
4	2-12	1	4	PA-2012	PA-2013	7.20
5	2-3	5	1	PA-2014	PA-2015	3.30
5	2-12	1	5	PA-2016	PA-2017	8.60
6	2	6	1	PA-2018	PA-2019	3.30
6	2-5	3	2	PA-2020	PA-2021	4.70
6	2-6	2	3	PA-2022	PA-2023	6.00
6	2-12	1	6	PA-2024	PA-2025	10.00
8	2-6	2	4	PA-2026	PA-2027	7.20
9	2-5	3	3	PA-2028	PA-2029	6.00
10	2-3	5	2	PA-2030	PA-2031	4.70
10	2-6	2	5	PA-2032	PA-2033	8.60
12	2	6	2	PA-2034	PA-2035	4.70
12	2-6	2	6	PA-2036	PA-2037	10.00
15	2-3	5	3	PA-2038	PA-2039	6.50
18	2	6	3	PA-2040	PA-2041	6.50

SPECIAL CIRCUITS

1	2-10	1	1	PA-2052	.....	3.00

(Nine active contacts, all shorted to common contact in full CCW positions, and progressively opened and dropped with CW rotation.)

1	2-10	1	1	PA-2042	.....	3.00

(Nine active contacts, all open in full CCW position and progressively picked up and shorted to common contact with CW rotation.)

2	2-12	1	2	PA-2048	PA-2049	6.50

(Coin silver clips and contacts.)

2	4	1	2	PA-2050	.....	3.30

(For Switching dual lines.)

MINIATURE SWITCHES WITH 60° INDEXING

1	2-6	1	1	.....	PA-2043	3.00
2	2-6	1	2	.....	PA-2045	4.20

(1½" spacing between sections.)

SEPARATE INDEX ASSEMBLIES

Indexing	Rear Shaft Length	Suggested No. Sections	Catalog Number	List Price
30°	2"	1 to 3	PA-300	$1.90
30°	4"	4 to 6	PA-301	2.50
30°	6"	7 to 9	PA-302	3.30
60°	2"	1 to 3	PA-304	2.00
60°	4"	4 to 6	PA-305	2.60

Same for PA-2000 and PA-1000 Series.

(Continued on next page)

SWITCHES (Cont'd)

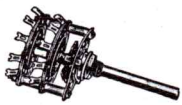
(Continued from previous page)

SEPARATE STEATITE SECTIONS FOR PA-2000 SERIES

Use with Index Assemblies No. PA-300, PA-301, PA-302 (except as noted) for assembly of special switches to meet your requirements.)

No. Poles	No. Positions	Indexing	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-12	30°	PA-0	PA-1	$1.65
2	2-6	30°	PA-2	PA-3	1.65
3	2-5	30°	PA-4	PA-5	1.65
5	2-3	30°	PA-6	PA-7	1.65
6	2	30°	PA-8	PA-9	1.65
1	2-5	30°	PA-10	PA-19	1.65
(Unused contacts one side of common connected and shorted out.)					
1	2-11	30°	PA-11	PA-18	1.65
(All unused contacts connected and shorted out.)					
1	2-10	30°	PA-12	....	1.65
(Nine active contacts, all open in full CCW position and progressively picked up and shorted to common contact with CW rotation.)					
1	2-10	30°	PA-13	....	1.65
(Nine active contacts, all shorted to common contact in full CCW position, and progressively opened and dropped with CW rotation.)					
1	2-6	60°	PA-20	PA-17	1.65
(Use with 60° index assemblies PA-304 or PA-305.)					
COIN SILVER CLIPS AND CONTACTS					
1	2-12	30°	PA-16	PA-21	$2.75
2	2-6	30°	PA-14	PA-23	2.75
4	2	30°	PA-15	PA-24	2.75

1400 SERIES PHENOLIC ROTARY SELECTOR SWITCHES



Series 1400 offers compact design and quality construction. Laminated phenolic insulation. Mounting Bushings ⅜" x 32 thd. x ¾" long. Shafts 2¼" long from mounting surface. Positive 30° index with adjustable stop. Rating and applications same as 2500 series.

Total No. Poles	No. Positions	Poles Per Section	No. Sections	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-6	1	1	1400	1401	$2.90
1	2-11	1	1	1402	1403	2.90
2	2-5	2	1	1404	1405	2.90
2	2-6	1	2	1410	1411	3.60
2	2-11	1	2	1412	1413	3.60
3	2-3	3	1	1406	1407	2.90
3	2-6	1	3	1420	1421	4.50
3	2-11	1	3	1422	1423	4.50
4	2	4	1	1408	1409	2.90
4	2-5	2	2	1414	1415	3.60
4	2-6	1	4	1426	1427	5.30
4	2-11	1	4	1428	1429	5.30
6	2-3	3	2	1416	1417	3.60
6	2-5	2	3	1424	1425	4.50
8	2	4	2	1418	1419	3.60
8	2-5	2	4	1430	1431	5.30

SEPARATE PHENOLIC SECTIONS

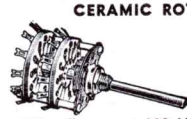
DELUXE SECTIONS — .187" rotor slot for use with P-270, P-271, P-272 Indexes. This is strongest, most reliable construction.

FLAT SHAFT SECTIONS — .064" rotor slot for use with P-121, P-122, P-123 Indexes.

No. Poles	No. Positions	Flat Shaft Shorting	Deluxe Shorting	Flat Shaft Non-Shorting	Deluxe Non-Shorting	List Price
1	2-6	A	AD	H	HD	$1.20
1	2-11	B	BD	J	JD	1.20
2	2-5	C	CD	K	KD	1.20
3	2-3	D	DD	L	LD	1.20
4	2	E	ED	M	MD	1.20
4	2-3	EE	EED	..	BBD	1.65
1	2-5	F	FD	..	AAD	1.20
(Unused contacts one side of common connected and shorted out.)						
1	2-11	G	GD	..	CCD	1.20
(All unused contacts connected and shorted out.)						
1	2-10	PI	PID	..	....	1.20
(Nine active contacts, all open in full CCW position, and progressively picked up and shorted to common contact with CW rotation.)						
Combine for resistance decade	N, P		ND, PD	..	....	1.20
Capacitance decade	Q		QD	..	....	1.20

SEPARATE INDEX ASSEMBLIES — *(see 2500 series)*

2500 SERIES CERAMIC ROTARY SELECTOR SWITCHES



The 2500 ceramic insulation series are primarily used for band change and general tap switch application where miniaturization is not a necessity. Grade L5 Steatite insulation. Rated 2 amps. at 15 V.D.C., 150 milliamps at 110 V.A.C. Bushing: ⅜" — 32 thd., ⅜" long, shaft 2¼" long from mounting surface. 30° indexing — adjustable stop. See "Ham Switches" for 60° and 90° indexing. Indexes and hardware interchangeable with 1400 phenolic series.

Total No. Poles	No. Positions	Poles Per Section	No. Sections	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-6	1	1	2500	2501	$3.30
1	2-11	1	1	2502	2503	3.30
2	2-5	2	1	2504	2505	3.30
2	2-6	1	2	2510	2511	4.70
2	2-11	1	2	2512	2513	4.70
3	2-3	3	1	2506	2507	3.30
3	2-6	1	3	2520	2521	6.00
3	2-11	1	3	2522	2523	6.00
4	2-5	2	2	2514	2515	4.70
6	2-3	3	2	2516	2517	4.70
6	2-5	2	3	2524	2525	6.00

SEPARATE CERAMIC SECTIONS

DELUXE SECTIONS — .187" rotor slot for use with P-270, P-271, P-272 Indexes. This is strongest, most reliable construction.

FLAT SHAFT SECTIONS — .064" rotor slot for use with P-121, P-122, P-123 Indexes.

No. Poles	No. Positions	Flat Shaft Shorting	Deluxe Shorting	Flat Shaft Non-Shorting	Deluxe Non-Shorting	List Price
1	2-6	T	TD	X	XD	$1.65
1	2-11	U	UD	Y	YD	1.65
2	2-5	R	RD	RR	RRD	1.65
3	2-3	S	SD	SS	SSD	1.65
4	2	V	VD	Z	ZD	1.65
1	2-11	GG	GGD	..	FFD	1.65
(All unused contacts connected and shorted out.)						
1	2-10	PIS	PISD	..	....	1.65
(Nine active contacts, all open in full CCW position, and progressively picked up and shorted to common contact with CW rotation.)						

(Continued on next page)

SWITCHES (Cont'd)

(Continued from previous page)

Combine for resistance decade	...	NSD / PSD	.. ....	1.65 / 1.65
Capacitance decade	...	QSD	.. ....	1.65

SEPARATE INDEX ASSEMBLIES

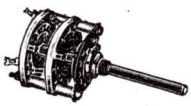
DELUXE — 1 piece shaft, .187" thick flat shaft (DD type) through sections, for use with Deluxe 2500 Series steatite or 1400 series phenolic sections AD thru ZD. 30° positive index. Individually cartoned including hardware and knob.

Catalog Number	Rear Shaft	Suggested No. Sections	List Price
P-270	2"	1 to 3	1.90
P-271	4"	3 to 5	2.50
P-272	8"	5 to 10	3.30

FLAT SHAFT — 2 piece shaft, 0.64" thick flat shaft through sections, for use with "flat shaft" 2500 series steatite or 1400 series phenolic section A thru Z. Individually cartoned including hardware and knob.

P-121	2"	1 to 3	$1.90
P-122	4¼"	3 to 4	2.50
P-123	7"	5 to 8	3.30

HAM SWITCHES



Heavy duty deluxe ceramic construction needed for "Ham" application is available in both 60° and 90° indexing for 5 and 4 band application with an adjustable stop. Size and hardware same as 2500 series. Breakdown voltage, 2000 volts, AC-RMS. Rating 150 milliamp at 150 V.A.C.; 4 milliamp at 1500 V.A.C.; 2 amps. at 15 V.D.C. For use with tubes operating at voltages up to 1 KV and inputs up to 150 watts.

60° HAM TYPE SWITCHES

Total No. Poles	No. Positions	Poles per Section	No. Sections	Catalog No.	List Price
1	2 to 6	1	1	2550	$3.00
2	2 to 6	1	2	2551	4.25
3	2 to 6	1	3	2552	5.50
4	2 to 6	1	4	2553	6.75
5	2 to 6	1	5	2554	8.00

60° SEPARATE SECTION

1 pole	2-6 position	Non-Shorting	Deluxe Cat. No. ZZD	$1.65

60° SEPARATE INDEX ASSEMBLIES

Ham Type — 60° indexing. Two piece shaft construction, phenolic rear, metal front. Use with "ZZD" Ham Type sections.

(One index, knob; and sufficient hardware to complete switch are included in each index assembly.)

Catalog Number	Rear Shaft	Suggested No. Sections	List Price
P-273	2"	1 to 2	$1.90
P-274	4¼"	3 to 4	2.40
P-275	7"	5 to 8	3.00

90° HAM TYPE SWITCHES

Total No. Poles	No. Positions	Poles per Section	No. Sections	Catalog No.	List Price
1	2 to 4	1	1	2542	$3.00
2	2 to 4	1	2	2543	4.25
3	2 to 4	1	3	2544	5.50
4	2 to 4	1	4	2545	6.75
5	2 to 4	1	5	2546	8.00

90° SEPARATE SECTIONS

1 pole, 2 to 4 position, Non-shorting, Cat. No. XX.
1 pole, 2 to 4 position, Non-shorting, Deluxe, Cat. No. XXD.

90° SEPARATE INDEX ASSEMBLIES

Ham Type — 90° indexing. Use with "XXD" Deluxe Ham type se tions. For high voltage operation. Switches using this index w pass 2000 volts AC breakdown to ground test. Individually ca toned including hardware and knob.

Catalog Number	Rear Shaft	Suggested No. Sections	List Price
P-278	2"	1 to 2	1.90
P-279	4¼"	3 to 4	2.40
P-280	7"	5 to 8	3.00

Ham Type — 90° indexing. Two piece metal shaft constructio Use with "XX" Ham Type sections. Hardware and knob include

P-170	2"	1 to 2	$1.90
P-171	4¼"	3 to 4	2.40
P-172	7"	5 to 8	3.00

TV ANTENNA ATTENUATOR PCH-4 SWITCH

Eliminates "tearing" of image due to hig power through use of "H" pads. Prope attenuation also eliminates "ghosting" b reducing signal strength — reduces th weaker signal in a single channel. Usef in matching impedance between antennas and receivers.

Unit has six switching positions: 1 — Regular antenna. 2 — 10 db signal loss inserted between the antenna and receiver. 3 — a 20 db loss. 4 — a 30 db loss. 5 — a 40 db loss. 6 — a 60 d loss — disconnects antenna for areas of immediate proximity t high power transmitter.

CAT. NO. PCH-4 ..... List Price $10.0

SEPARATE H-PADS FOR TV ATTENUATOR

"H" Pads are a combination of 5 resistors on a steatite ceram plate — Centralab's Packaged Electronic Circuits. Solder lug te minals, phenolic coated and triple wax impregnated. Each un clearly marked.

Packaged individually, 5 packages per carton.

Atten.	Catalog Number	Atten.	Catalog Number	List Price
10 db	PCH-10	30 db	PCH-30	$1.50
20 db	PCH-20	40 db	PCH-40	1.50

CAT. NO. PCH-100 KIT — set of 4. 1 of each value of above "H" Pads (clear plastic box) ..... List Price $6.0

DUAL SPEAKER SWITCH KIT

The PK-300 Kit is primarily designed fo rear seat auto radio speaker applic tions, however, it is adaptable to man commercial applications where dua switching is desirable. Includes switc mounting bracket, dial plate, knol screws and instructions.

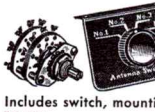
PK-300 ..... List Price $1.75 e

ANTENNA SWITCH KIT

The PK-400 Kit is primarily designed fo UHF-VHF antenna switching. The ste tite insulated switch is rated at 2 amp 15 volts DC, 150 milliamperes at 11 volts AC (make-Break resistive load Includes switch, mounting bracket, dial plate, knob and screws.

PK-400 ..... List Price $2.7

INTERCOM CORD OPERATED SWITCH KIT



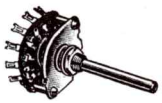
The PK-500 Kit is designed for use i PA and Intercom systems where depend able service and low cost is desire Includes switch, mounting screws, cor and instruction sheet.

PK-500 ..... List Price $2.70 e

Centralab®
CRL
900 East Keefe Avenue, Milwaukee 1, Wisconsin In Canada: 669 Bayview Ave., Toronto, Ontario

SWITCHES (Cont'd)

ROTARY ACTION SWITCHES



Rating 2 amperes at 15 volts DC. 150 milliamperes at 110-volts AC resistive load. Bushing, 3/8" — 32 thd., 3/8" long. Shaft, 1/4" diam. full round — 2 1/4" long from mtg. surface.

CAT. NO. 1443: "23 CLIPPER" Single Section Single Pole, 23 active positions; 15° positive indexing requiring only 1" overall behind panel. Fixed stop. **List Price: $3.00**

CAT. NO. 1444: Same as 1443 except 2 sections, 2 poles.
List Price: $4.00

CAT. NO. 1445: Same as 1443 except continuous rotation.
List Price: $3.00

CAT. NO. 1448: 6 Pole, 3 Position, Non-Shorting Contacts, Spring Return Index, both sides to center. This switch will replace any unit from 2 pole, 2 position to 6 pole, 3 position. Requires only 1" overall depth behind panel. Ideal for PA and intercom applications.
List Price: $2.75

CAT. NO. 1449: 6 Pole, 3 Position, Non-Shorting Contacts, Spring Return Index, one side to center. Positive Index, opposite side to center. Otherwise same as 1448 above.
List Price: $2.75

CAT. NO. 1450: "ECONO-SWITCH" — 4 Pole, 2 Position, Non-Shorting, Positive leaf-type spring index. Staked spacer to front plate construction requires only 7/8" depth behind the panel. Can be used as SPST and up to 4 pole, 2 position.
List Price: $1.75

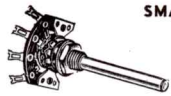
CAT. NO. 1451: "PERMA-SWITCH" — 4 Pole, 2 Position, Non-Shorting Contacts, Spring Return Index. Has the same long life coil spring index as 1448 and 1449. Designed particularly for long, hard use in industrial test equipment and simple "press to talk" intercom systems. **List Price: $2.00**

SECTIONS ONLY FOR 1443-1444-1445

CAT. NO. W: For replacement on old type 1443 switches having standard flat shaft and .064" wide rotor slot.
List Price: $1.65

CAT. NO. WD: For replacement in above 1443, 1444 and 1445 switches having deluxe shaft and .187" wide rotor slot (DD type).
List Price: $1.65

SMALL GENERAL PURPOSE SWITCHES



Rating 2 amperes at 15 volts DC. 150 milliamperes at 110-volts AC resistive load. Bushing, 3/8" — 32 thd., 3/8" long except 1484 — 1/4" long bushing.

CAT. NO. 1460: Single pole, 2 position, shorting contacts, positive index. Can be used as SPST or SPDT. For phono-radio, tone or sensitivity control. **List Price: $1.50**

CAT. NO. 1461: Single pole, 3 position, shorting contacts, positive index. Useful in miniature band change, step type tone or sensitivity control, and P.A. channel selector switch.
List Price: $1.50

CAT. NO. 1462: Double pole, 2 position, shorting contacts, positive index. Can be used on SPST, SPDT, DPST, DPDT — for meter reversing, P.A. channel, or switching both lines on phono-radio.
List Price: $1.50

CAT. NO. 1463: Single pole, 2 position, non-shorting contacts, spring return index. Useful for meter reversing or momentary intercom talk switch. Non-shorting.
List Price: $1.50

CAT. NO. 1464: Double pole, 2 position, non-shorting contacts, spring return index. Used as meter switch and momentary line or remote speaker return on intercoms.
List Price: $1.50

CAT. NO. 1465: Single pole, 4 position (3 active) with AC-DPST line switch. Shorting contacts, Positive index. Used as replacement for "on-off", 3 step control switch in many AM and FM receivers.
List Price: $2.50

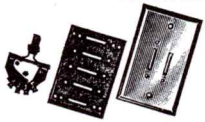
CAT. NO. 1472: 2 pole, 3 position, non-shorting contacts, positive index. An economical change switch for AM, FM, phone selector to amplifier in custom installations.
List Price: $1.50

CAT. NO. 1473: Same as 1472 except shorting contacts.
List Price: $1.50

CAT. NO. 1483: Single pole, 3 position, shorting contacts, positive index. For use with dual or auxiliary rear seat auto radio speakers. Permits operation of either speaker separately or both simultaneously. **List Price: $1.50**

CAT. NO. 1484: Single pole, 3 position remote speaker switch. Same as Cat. No. 1483 except with 1/4" bushing and 3/8" split knurl shaft. 15/16" black split knurl knob with chrome center, Cat. No. P-401, is furnished.
List Price: $1.50

LEVER ACTION SWITCHES



Space saving lever action switches can be mounted singly or in groups. Rated 2 amps. at 15 V.D.C.; 150 milliamps at 110 V.A.C. Mtg. — two 6-32 thrd. mtg. holes on 1 5/8" centers. 30° indexing. Furnished with mtg. screws and knob.

Number Poles	Number Positions	Type Indexing	Cat. No. Shorting	Non-Shorting	List Price
2	3	Positive	1452	1454	$1.75
2	3	Spring Return	1453	1455	1.75
2	3	Positive Spring Return	1466	1467	1.75
4	2	Spring Return	1456	1457	2.00
4	2	Positive	1459	1458	2.00
2	3	Positive	2815	....	1.75
(Special model-railroad reversing or turnout and signal switch.)					
1	3	Positive	....	1475	1.75

(Primarily a replacement part for the ganged switches found in tube testers and other testing equipment.)

MOUNTING PLATES FOR LEVER SWITCHES

TYPE A — Made of .035" die cut steel, black crackle finish. Eliminate alignment problems, provide 3/4" spacing between switches. Available for 1 to 5 switch mounting. Height of all plates is 2 5/8".

TYPE B — For mounting lever switches in electrical outlet boxes. Chrome plated. Mounting holes 3 5/16" between centers.

MOUNTING PLATE — TYPE A

No. Switches	Length	Cat. No.	List Price
1	3/4"	P-1755	$0.50
2	1 1/2"	P-1756	.50
3	2 1/4"	P-1757	.50
4	3"	P-1758	.50
5	3 3/4"	P-1759	.50

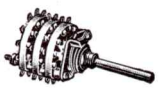
WALL PLATE — TYPE B

No. Switches	Cat. No.	List Price
2	P-221	$0.85
1	P-222	.85

Size: 2 3/4" x 4 1/2" overall.
3/4" spacing between switches.

SWITCHES (Cont'd)

SUB-MINIATURE ROTARY SWITCHES



Type PS ceramic insulated sub-miniature switches have the same electrical ratings as switches much heavier and larger in diameter. Grade L-5A steatite insulation per MIL-S-3786. Sections — 1" diam., 1/8" thick. All metal parts except clips, contacts and index spring, cadmium plated steel. Bushing: 1/4" — 32 thread x 1/4" long. Shaft: 1/8" diameter, 1 1/4" long from mtg. surface. Rated: 0.5 ampere at 6 volts DC; 100 milliamperes at 110 volts AC. Indexing: positive 30° with fixed stop.

Total Poles	No. of Positions	Poles per Section	No. of Sections	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	11	1	1	PS-100	PS-101	$ 8.00
2	11	1	2	PS-102	PS-103	10.00
2	5	2	1	PS-104	PS-105	8.00
3	11	1	3	PS-106	PS-107	12.00
3	3	3	1	PS-108	PS-109	8.00
4	5	2	2	PS-110	PS-111	10.00
4	2	4	1	PS-112	PS-113	8.00
6	5	2	3	PS-114	PS-115	12.00
6	3	3	2	PS-116	PS-117	10.00
8	2	4	2	PS-118	PS-119	10.00
9	3	3	3	PS-120	PS-121	12.00
12	2	4	3	PS-122	PS-123	12.00

SEPARATE SUB-MINIATURE STEATITE SECTIONS

Use with index assemblies P-501 thru P-511 listed below for fixed stop indexing, and switching not supplied in the above completed PS series switches.

No. Poles	No. Positions	Catalog No. Shorting	Catalog No. Non Shorting
1	2-11	PS-20	PS-21
2	2-5	PS-22	PS-23
3	2-3	PS-24	PS-25
4	2	PS-26	PS-27

List Price: $4.50

SEPARATE SUB-MINIATURE INDEX ASSEMBLIES

All index assemblies listed below are designed for a maximum 3 sections and contain the following: (1) index and shaft assembly, (1) KC-6 pointer knob, (6) 3/32" spacers, (2) 1/16" spacers, (2) 1/8" spacers, (2) 3/16" spacers, (2) 1 1/8" tie bolts, nuts, lockwashers, washers, and (16) plastic spacer washers.

No. Positions	Catalog No.	No. Positions	Catalog No.
2	P-501	7	P-506
3	P-502	8	P-507
4	P-503	9	P-508
5	P-504	10	P-509
6	P-505	11	P-510
		continuous rotation	P-511

List Price: $4.50

HEAVY DUTY ROTARY POWER SWITCHES STEATITE — 7 1/2 Amps at 115 Volts A.C.

Designed for high accuracy, long life in transmitters and power supplies. Steatite insulation. Bushing: 3/8" — 32 thread, 3/8" long. Shaft: 1/4" diam. double flat, 2 1/4" long from mounting surface. Rated: 7 1/2 amp. @ 115 volts AC, 25 amps. @ 6 V.D.C., 0.75 amps. @ 500 volts AC, 0.4 amps. @ 1000 V.A.C. 20° positive indexing. Adjustable stop. Dial plate and knob included.

Total Poles	Number Positions	Number Sections	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-17	1	JV-9000	JV-9001	$16.00
2	2-8	1	JV-9032	JV-9033	16.00
2	2-17	2	JV-9004	JV-9005	26.50
3	2-5	1	JV-9002	JV-9003	16.00
3	2-17	3	JV-9008	JV-9009	37.00
4	2-8	2	JV-9034	JV-9035	26.50
4	2-17	4	JV-9012	JV-9013	47.50
5	2-17	5	JV-9016	JV-9017	58.00
6	2-5	2	JV-9006	JV-9007	26.50
6	2-8	3	JV-9036	JV-9037	37.00
6	2-17	6	JV-9020	JV-9021	68.50
8	2-8	4	JV-9038	JV-9039	47.50
9	2-5	3	JV-9010	JV-9011	37.00
12	2-5	4	JV-9014	JV-9015	47.50
15	2-5	5	JV-9018	JV-9019	58.00

SEPARATE SECTIONS

For new "DD" type rotor shaft

Poles	Positions	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-17	JV-8	JVN-8	$10.50
2	2-8	JV-10	JVN-10	10.50
3	2-5	JV-9	JVN-9	10.50

For square rotor shaft

1	2-17	KV-8	KVN-8	10.50
2	2-8	KV-10	KVN-10	10.50
3	2-5	KV-9	KVN-9	10.50

SEPARATE MULTIPLE FINGER SECTION

For new "DD" type rotor shaft

Poles	Positions	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-18	JV-18	JVN-18	$11.50

(Rotor has 17 fingers, making contact with 17 contacts on stator leaving one contact open.) By cutting off unwanted fingers, this section can be adapted for many special circuits. For example, can be adapted to a one off, nine progressively shorting position, pick up and hold each progressive position.

For square rotor shaft

Poles	Positions	Cat. No. Shorting	Cat. No. Non-Shorting	List Price
1	2-18	KV-18	KVN-18	11.50

SEPARATE INDEX ASSEMBLY

For new "DD" type rotor shaft

Indexing	Shaft Length	No. Sections	Catalog No.	List Price
20°	7"	2-6	JV-7	$7.00

(Includes all necessary hardware.)

For square rotor shaft

20°	7"	2-6	KV-7	7.00

(Includes all necessary hardware.)

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SWITCH KITS

KIT NO. 1000

PA-1000 Series Phenolic Switch Parts

This kit contains 68 miniature phenolic sections, 15 complete index assemblies, plus hardware. All specifications are identical to PA-1000 Series units.

Sections — 30° Indexing

Quantity	Cat. No. Shorting	Cat. No. Non-Shorting
8	PA-30	PA-31
8	PA-32	PA-33
8	PA-34	PA-35
4	PA-36	PA-37
2	PA-38	PA-39
2	PA-40	PA-41
2	PA-49	.....

Sections — 60° Indexing

2	.....	PA-45

Index Assemblies

Quantity	Cat. No.	Indexing
7	PA-300	30°
4	PA-301	30°
2	PA-302	30°
1	PA-304	60°
1	PA-305	60°

Miscellaneous

Quantity	Cat. No.	Description
5	PA-320	Intersection Shields

(Kit packed in 4 drawer metal cabinet 9½"x11½"x9¾")

List Price: $117.60

KIT NO. 2000

PA-2000 Series Ceramic Switch Parts

This kit contains 39 miniature steatite sections, 12 complete index assemblies, plus hardware. All specifications identical to PA-2000 Series units.

Sections — 30° Indexing

Quantity	Cat. No. Shorting	Cat. No. Non-Shorting
3	PA-0	PA-1
3	PA-2	PA-3
3	PA-4	PA-5
3	PA-6	PA-7
3	PA-8	PA-9
2	PA-10	.....
2	PA-11	.....
2	PA-12	.....

Sections — 60° Indexing

3	.....	PA-17

Index Assemblies

Quantity	Cat. No.	Indexing
5	PA-300	30°
3	PA-301	30°
2	PA-302	30°
1	PA-304	60°
1	PA-305	60°

Miscellaneous

Quantity	Cat. No.	Description
5	P-320	Intersection Shields

(Kit packed in 4 drawer metal cabinet 9½"x11½"x9¾")

List Price: $94.05

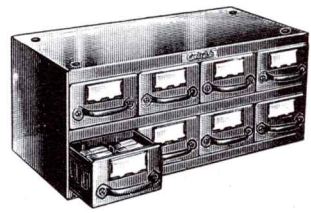
KNOBS

	Cat. No.	List Price
1¼" Black Pointer Knob (set screw)	P-120	$0.25
2" Black Pointer Knob Brass Insert, 2 set screws (power)	P-168	.55
Lever Switch — Black	P-193	.25
Lever Switch — Red	P-194	.25
1½" Paddle — Walnut (PA and Intercom.)	P-198	.40
15/16" Round, Split Knurl (Push on), Black with Chrome Center	P-401	.40
Dual Concentric — Inner — .187", Flatted .156"	KC-1	.30
Dual Concentric — Outer .265" Slotted	KC-2	.30
JP Control — Black — (Set Screw) for ⅛" Shaft	KC-3	.30
JP Control — White — (Set Screw) for ⅛" Shaft	KC-4	.30
JP Control — Red — (Set Screw) for ⅛" Shaft	KC-5	.30
PS-Switches (Black Pointer) (Set Screw) for ⅛" Shaft	KC-6	.30
T & L Pads — 1" Round with Pointer — Black (Set Screw)	KC-10	.30

INTERSECTION SHIELDS

Miniature — .035" thick cadmium plated steel. Use with PA-1000 or PA-2000 Series Switches to reduce coupling effects.
CAT. NO. P-320.....$ .30

Standard — .035" cadmium plated steel. Use with 1400 or 2500 Series Switches between sections to reduce coupling effects.
CAT. NO. P-200.....$ .30



These Switch Kits afford a convenient ready source of stock sections, indexes and hardware. All four kits packed in heavy gauge steel, shelf size cabinets, 23¾" wide, 9½" high, 12" deep.

KIT NO. PA-410 — PA-1000 series miniature phenolic switch parts. Kit contains 106 — 1¼" diam. phenolic sections, 32 index assemblies including spacers, washers, nuts, knobs and dial plates . . . enough to assemble 32 regular or special switches.
List Price: $218.65

KIT NO. PA-420 — PA-2000 series miniature ceramic switch parts. Kit contains 102 — 1½" diam. steatite sections, 32 index assemblies including spacers, washers, nuts, knobs and dial plates . . . enough to assemble 32 regular or special switches.
List Price: $259.75

KIT NO. 414D — 1400 series phenolic switch parts. Kit contains 100 — 1⅞" diam. phenolic sections, 30 index assemblies including spacers, washers, nuts, knobs and dial plates . . . enough to assemble 30 regular or special switches.
List Price: $212.20

KIT NO. 419D — 2500 series ceramic switch parts. Kit contains 100 — 1⅞" diam. steatite sections, 29 index assemblies including spacers, washers, nuts, knobs and dial plates . . . enough to assemble 29 switches. Both 30° and 60° indexes and sections included.
List Price: $252.70

DIAL PLATES

Etched aluminum, black background. 1⅞" diameter.

1-2-3	30°	P-178	1 to 23	15°	P-173
1 to 5	30°	P-115	1-2-3-4	90°	P-162
1 to 6	30°	P-116	10-20-40-80	90°	P-163
1 to 10	30°	P-117	1 to 5	60°	P-402
1 to 11	30°	P-118	10-15-20-40-80	60°	P-404
1 to 12	30°	P-112	Min.-Max. (T-L Pads)		P-406

2¾" diameter, etched aluminum, 20° marking for power switches.

1 to 5.....20°.....P-230 1 to 17.....20°.....P-231
1 to 8.....20°.....P-232

DIAL PLATES — List Price: $0.30

MOUNTING BRACKETS

For 1400 and 2500 series. .065" cadmium plated steel. Use to mount, between sections for rigidity, or at rear of long switch assemblies for more accurate indexing. "H" dimension is from base to shaft center. Footed, with slotted mounting holes (1" centers) to chassis.
All 1⅝" wide.

Bracket 1¼" "H".....Cat. No. P-210
Bracket 2¼" "H".....Cat. No. P-212
Bracket 3¼" "H".....Cat. No. P-214

Bracket-Dial Plate — dual speaker
Etched aluminum .....Cat. No. P-216

Bracket-Dial Plate — 4 channel dual lines
(PA-2050 switch) .....Cat. No. P-218

MOUNTING BRACKETS — List Price: $0.35

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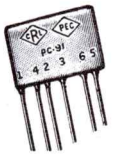
PACKAGED ELECTRONIC CIRCUITS



Packaged Electronic Circuits are electronic sub-assemblies of component parts including capacitors, resistors, and wiring printed and bonded to a rugged ceramic base plate.

SINGLE RESISTOR

Cat. No.	R1	List
PC-2	2 Meg.	$ .70

DUAL RESISTOR

Cat. No.	R1	R2	List
PC-21	500K	110K	$ .70

RESISTOR-CAPACITOR

Cat. No.	R1	C1	List
PC-30	240K	1000 mmf	$ .70
PC-33	1 Meg.	1000 mmf	.70
PC-36	100K	100 mmf	.70
PC-37	470K	100 mmf	.70
PC-60	270K	100 mmf	.70
	(See Senior Compentrol C2-200.)		
PC-61	270K	300 mmf	.70
	(See Senior Compentrol C2-200.)		
PC-341	68K	3300 mmf	1.00

DIODE LOAD FILTERS

Cat. No.	R1	C1	C2	List
PC-50	47K	100 mmf	100 mmf	$ .60
PC-51	47K	150 mmf	150 mmf	.60
PC-52	47K	50 mmf	50 mmf	.60
PC-326	100K	100 mmf	100 mmf	1.00

TRIODE COUPLATES®

Cat. No.	R1	R2	C1	C2 & C3	List
PC-70	500K	500K	5000 mmf	250 mmf	$ .70
PC-71	250K	500K	5000 mmf	250 mmf	.70
PC-80	500K	500K	.01 mfd	250 mmf	.75
PC-81	250K	500K	.01 mfd	250 mmf	.75
PC-84	500K	500K	.01 mfd	500 mmf	.75
PC-82	470K	1 Meg.	.01 mfd	.....	.75

PENTODE COUPLATES®

Cat. No.	R1	R2	R3	C1	C2	C3	List
PC-90	4.7 Meg.	1 Meg.	2.2 Meg.	5000 mmf	50 mmf	2000 mmf	$ .90
PC-91	4.7 Meg.	1 Meg.	2.2 Meg.	5000 mmf	100 mmf	5000 mmf	.90
PC-92	4.7 Meg.	1 Meg.	2.2 Meg.	5000 mmf	100 mmf	2000 mmf	1.00

VERTICAL INTEGRATORS

Cat. No.	R1	R2	R3	C1	C2	C3	List
PC-100	22K	8.2K	8.2K	2000 mmf	5000 mmf	5000 mmf	$1.10
PC-104	22K	8.2K	8.2K	2000 mmf	5000 mmf	5000 mmf	1.00
	(Special construction to reduce stray capacities.)						

VERTICAL INTEGRATORS

Cat. No.	R1	R2	R3	R4	C1	C2	C3	C4	List
PC-101	22K	8.2K	8.2K	22K	.01 mfd	2000 mmf	5000 mmf	5000 mmf	$1.10
PC-312	47K	47K	68K	100K	180 mmf	800 mmf	800 mmf	130 mmf	1.00

VERTICAL INTEGRATORS

Cat. No.	R1	R2	C1	C2	C3	List
PC-105	8.2K	8.2K	2000 mmf	5000 mmf	5000 mmf	$1.00
PC-106	22K	10K	4700 mmf	4700 mmf	.....	1.00

TELEVISION I.F. FILTER

Cat. No.	R1	R2	C1	C2	List
PC-110	1000	820	5000 mmf	5000 mmf	$1.00
PC-111	220	1000	5000 mmf	5000 mmf	1.00

AUDIO DETECTOR COUPLATES®

Cat. No.	R1	R2	R3	C1	C2	C3 & C5	C4	List
PC-150	6.8 Meg.	470K	470K	2000 mmf	220 mmf	250 mmf	5000 mmf	$1.00
PC-151	6.8 Meg.	470K	470K	5000 mmf	220 mmf	250 mmf	5000 mmf	1.00
PC-154	6.8 Meg.	470K	470K	2000 mmf	220 mmf	500 mmf	5000 mmf	1.00
PC-159	10 Meg.	470K	470K	5000 mmf	220 mmf	250 mmf	5000 mmf	1.00
PC-157	6.8 Meg.	470K	470K	2000 mmf	220 mmf	250 mmf	5000 mmf	1.00
PC-158	6.8 Meg.	470K	470K	5000 mmf	220 mmf	250 mmf	5000 mmf	1.00

PENTODE DETECTOR COUPLATE®

Cat. No.	R1	R2	R3	R4	C1	C2	C3	C4	C5	List
PC-160	4.7 Meg.	1 Meg.	3.3 Meg.	10 Meg.	2000 mmf	150 mmf	.01 mfd	150 mmf	5000 mmf	$1.00
PC-165	4.7 Meg.	1 Meg.	3.3 Meg.	10 Meg.	2000 mmf	150 mmf	.01 mfd	150 mmf	5000 mmf	1.00
	(Special construction to reduce stray capacities.)									
Cat. No.	R1	R2	R3	R4	C1	C2	C3	C4	C5	List
PC-166	4.7 Meg.	1 Meg.	2.2 Meg.	4.7 Meg.	2000 mmf	150 mmf	.01 mfd	150 mmf	5000 mmf	$1.00
PC-327	4.7 Meg.	1 Meg.	3.3 Meg.	10 Meg.	1000 mmf	68 mmf	5000 mfd	68 mmf	2500 mmf	1.25
PC-328	4.7 Meg.	1 Meg.	3.3 Meg.	10 Meg.	2000 mmf	150 mmf	.01 mfd	150 mmf	5000 mmf	1.25

SPECIALS

Cat. No.	R1	C1	C2	List
PC-175	4.7 Meg.	250 mmf	.01 mfd	$1.00

Cat. No.	R1	R2	C1	C2	List
PC-176	82K	39K	1000 mmf	2000 mmf	$1.00

Cat. No.	R1	R2	R3	C1	List
PC-177	150K	47K	1 Meg.	.01 mfd	$1.00

Cat. No.	R1	R2	C1	List
PC-178	15K	270K	150 mmf	$1.00

Cat. No.	R1	R2	C1	C2	List
PC-179	150	220	5000 mmf	5000 mmf	$1.00
PC-329	330	27K	5000 mmf	2000 mmf	1.00

Cat. No.	R1	C1	C2	List
PC-184	270K	.01 mfd	150 mmf	$1.00

Cat. No.	R1	C1	C2	List
PC-185	4.7 Meg.	.01 mfd	50 mmf	$1.00

Cat. No.	R1	C1	C2	C3	List
PC-186	22K	1000 mmf	4000 mmf	.01 mfd	$1.00

Cat. No.	R1	R2	R3	R4	C1	C2	C3	List
PC-190	100K	470K	1000	100K	4700 mmf	4700 mmf	100 mmf	$1.00

SYNC. TAKE-OFF COUPLATE®

Cat. No.	R1	R2	R3	C1	C2	C3	List
PC-260	10K	330K	2.2 Meg.	270 mmf	.01 mfd	25 mmf	$1.00
PC-262	10K	220K	2.2 Meg.	270 mmf	.01 mfd	25 mmf	1.00
PC-263	Omit	220K	2.2 Meg.	270 mmf	.01 mfd	25 mmf	1.00
PC-264	10K	330K	2.2 Meg.	270 mmf	.01 mfd	9.5 mmf	1.00
PC-330	Omit	470K	2.2 Meg.	150 mmf	.01 mfd	25 mmf	1.00

SPECIALS

Cat. No.	R1	R2	R3	C1	C2	C3	List
PC-304	47K	10K	10K	390 mmf	2200 mmf	5000 mmf	$1.00

Cat. No.	R1	R2	R3	R4	R5	R6	R7	C1	C2	List
PC-305	470K	470K	470K	470K	100K	47K	100K	500 mmf	500 mmf	$1.00

Cat. No.	R1	R2	R3	R4	C1	C2	C3	List
PC-306	10K	10K	10K	1 Meg.	4000 mmf	.01 mfd	.01 mfd	$1.00

Cat. No.	R1	R2	C1	C2	List
PC-307	4.7 Meg.	220K	1000 mmf	.014 mfd	$1.00

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PACKAGED ELECTRONIC CIRCUITS (Cont'd)

HORIZONTAL OSCILLATOR

Cat. No.	R1	R2	R3	C1	C2	C3	C4	List
PC-308	10K	39K	5.6K	1000 mmf	1500 mmf	390 mmf	3000 mmf	$1.00

RETRACE-SUPPRESSION COUPLATE®

Cat. No.	R1	R2	C1	C2	List
PC-309	10K	1 Meg.	5000 mmf	.01 mfd	$1.00
PC-314	2.7K	56K	.01 mfd	.01 mfd	1.00

AUDIO COUPLATE®

Cat. No.	R1	R2	C1	C2	C3	List
PC-310	1.5 Meg.	10 Meg.	5000 mmf	410 mmf	3000 mmf	$1.00

VERTICAL FEED-BACK

Cat. No.	R1	R2	C1	C2	C3	List
PC-311	100K	100K	1000 mmf	1000 mmf	2000 mmf	$1.00

PC-312 *See Listing under VERTICAL INTEGRATOR PC-101.* 1.00

AUDIO DETECTOR COUPLATE®

Cat. No.	R1	R2	R3	C1	C2	C3 & C5	C4	List
PC-313	6.8 Meg.	470K	470K	5000 mmf	220 mmf	375 mmf	5000 mmf	$1.00
PC-315	6.8 Meg.	470K	470K	2000 mmf	400 mmf	220 mmf	5000 mmf	1.00
PC-331	6.8 Meg.	470K	470K	2000 mmf	400 mmf	220 mmf	5000 mmf	1.00

SYNC. TAKE-OFF COUPLATE®

Cat. No.	R1	R2	C1	C2	C3	List
PC-316	2.2 Meg.	470K	800 mmf	.01 mfd	470 mmf	$1.00

AUDIO COUPLATE®

Cat. No.	R1	R2	R3	C1	C2	List
PC-317	6.8 Meg.	470K	1 Meg.	6800 mmf	.01 mfd	$1.00

PENTODE DETECTOR COUPLATE®

Cat. No.	R1	R2	R3	R4	C1	C2	C3	C4	C5	List
PC-318	4.7 Meg.	1 Meg.	3.3 Meg.	10 Meg.	5000 mmf	150 mmf	.01 mfd	150 mmf	500 mmf	$1.25

PHASE COMPARATOR

Cat. No.	R1	R2	R3	R4	C1	C2	C3	List
PC-319	680K	680K	4.7 Meg.	220K	82 mmf	100 mmf	1000 mmf	$1.25

SPECIALS

Cat. No.	R1	R2	R3	C1	C2	C3	List
PC-320	100K	100K	100K	1000 mmf	150 mmf	150 mmf	$1.00

Cat. No.	R1	R2	C1	C3	List
PC-321	10K	220K	680 mmf	5000 mmf	$1.00

Cat. No.	R1	R2	R3	C1	C2	List
PC-322	4.7 Meg.	4.7 Meg.	4.7 Meg.	1500 mmf	1500 mmf	$1.00

Cat. No.	R1	R2	R3	C1	C2	C3	List
PC-323	4.7 Meg.	4.7 Meg.	4.7 Meg.	3000 mmf	250 mmf	400 mmf	$1.00

Cat. No.	R1	R2	C1	C2	C3	C4	List
PC-324	50K	50K	4500 mmf	4500 mmf	100 mmf	200 mmf	$1.00

(Replacement plate for C1-60, C1-60-S, C2-60 Compentrols.)

PC-325 100K 100K 2500 mmf 2500 mmf 50 mmf 100 mmf 1.00

(Replacement plate for C1-70, C1-70-S, C2-70, C2-100 and C2-200 Compentrols.)

PC-326 *See Listing under DIODE LOAD FILTERS PC-50.* 1.00

PC-327 } *See Listing under PENTODE DETECTOR* 1.25
PC-328 } *COUPLATES® PC-160.* 1.25

PC-329 *See Listing under SPECIAL PC-179.* 1.00

PC-330 *See Listing under SYNC. TAKE-OFF PC-260.* 1.00

PC-331 } *See Listing under AUDIO DETECTOR COUPLATE® PC-313.* 1.00

SPECIALS

Cat. No.	R1	R2	C1	C2	C3	List
PC-332	4.7 Meg.	220K	1000 mmf	1000 mmf	3300 mmf	$1.00

Cat. No.	R1	C1	C2	List
PC-333	38.4K	.01 mfd	.012 mfd	$1.00

Cat. No.	R1	C1	C2	C3	List
PC-334	22K	1000 mmf	4000 mmf	.01 mfd	$1.00

RETRACE SUPPRESSION

Cat. No.	R1	R2	C1	C2	List
PC-336	10K	1 Meg.	5000 mmf	2000 mmf	$1.00

PHASE COMPARATOR

Cat. No.	R1	R2	R3	R4	C1	C2	C3	List
PC-337	100K	680K	4.7 Meg.	220K	82 mmf	200 mmf	1500 mmf	$1.00

SYNC. TIME K NETWORK

Cat. No.	R1	R2	R3	C1	C2	List
PC-338	1 Meg.	2.2 Meg.	270K	330 mmf	330 mmf	$1.00
PC-339	270K	2.2 Meg.	560K	330 mmf	330 mmf	1.00

AGC VOLTAGE DIVIDER

Cat. No.	R1	R2	R3	R4	R5	List
PC-340	22K	680K	1.2 Meg.	82K	820K	$1.00

PC-341 *See Listing under RESISTOR CAPACITOR PC-30.* 1.00

FM RATIO DETECTOR

Cat. No.	R1	R2	R3	R4	R5	R6	List
PC-342	1500	6.8K	68K	6.8K	1 Meg.	68	$1.25
	C1	C2	C3	C4			
	300 mmf	1000 mmf	300 mmf	300 mmf			

DIODE-PENTODE COUPLATE®

Cat. No.	R1	R2	R3	R4		List
PC-343	4.7 Meg.	1 Meg.	3.3 Meg.	10 Meg.		$1.25
	C1	C2	C3	C4	C5	
	2000 mmf	220 mmf	10,000 mmf	150 mmf	5000 mmf	

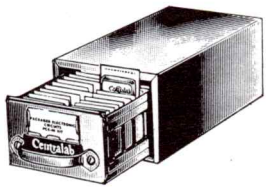
MINIATURE AUDIO AMPLIFIERS

Complete 3-stage audio amplifier for hearing aids, miniature radios, etc.

Cat. No.	List
PC-200 less tubes	$15.00
PC-201 with 3 subminiature tubes	25.00
PC-202 Zero bias output, added tone circuit, no tubes	17.50
PC-203 Zero bias output, added tone circuit, with tubes	32.00
PC-204 Grid bias output, added tone circuit, no tubes	17.50
PC-205 Grid bias output, added tone circuit, with tubes	33.50

KIT NO. PCK-40

Balanced inventory of 40 PEC's in the 13 most frequently used types. Heavy duty cabinet 6" x 4" x 11" included.



Qty.	Cat. No.	Qty.	Cat. No.
2	PC-81	2	PC-106
2	PC-91	5	PC-150
10	PC-100	2	PC-151
5	PC-101	2	PC-158
2	PC-104	2	PC-159
2	PC-105	2	PC-160
		2	PC-165

List Price: $40.80

Centralab®
CRL
900 East Keefe Avenue, Milwaukee 1, Wisconsin In Canada: 669 Bayview Ave., Toronto, Ontario

CERAMIC CAPACITORS

LOW VOLTAGE CAPACITORS FOR TRANSISTOR CIRCUIT APPLICATIONS

ULTRA KAPS**

Types UK and UK10 miniature ceramic disc capacitors are designed to meet the small size, high capacitance demands of transistor circuitry. Engineered specifically for by-pass and coupling the Ultra-Kap** is ideally suited for any low voltage use requiring extremely high capacities and low power factors. Double Durez insulation with high vacuum wax impregnation to withstand extreme temperature, humidity and vibration. UK10 series primarily used in transistorized portable radios. Stamped with capacity and voltage. Packaged — 2 capacitors per package.
**Trademark

Type UK (3 V.D.C.W.)

Cap. Mfd.	Cat. No.	Diam.	Max. Thickness	Nom. Lead Spacing	Tol.	Max. PF @ 1 KC	List Price
.1	UK-104	3/16"	.156"	3/16"	GMV	3%	$ .90
.22	UK-224	1/4"	.156"	1/4"	GMV	3%	.55
.47	UK-474	3/8"	.156"	1/4"	GMV	3%	.55
1.0	UK-105	5/16"	.156"	3/8"	GMV	3%	.75
2.2	UK-225	3/4"	.156"	3/8"	GMV	3%	.90

Type UK10 (10 V.D.C.W.)

Cap. Mfd.	Cat. No.	Diam.	Max. Thick-ness	Nom. Lead Spacing	Tol.	Max. PF @ 1 KC	List Price
.05	UK10-503	1/4"	.156"	1/4"	+80—20%	5%	$ .55
.1	UK10-104	3/8"	.156"	1/4"	+80—20%	5%	.55
.2	UK10-204	5/16"	.156"	3/8"	+80—20%	10%	.75
.47	UK10-474	3/4"	.156"	3/8"	+80—20%	10%	.90

TYPE DA AND DDA

Types DA and DDA are designed for high capacity, low voltage demands of transistor circuitry. Proven by use in transistor radio receivers. Double Durez insulation with high vacuum wax impregnation. Stamped with capacity. Packaged 5 capacitors per package.

Type DA "Transistor Circuit" Plate Capacitors
30 V.D.C.W. — 50 V.D.C. test

Cap. Mfd.	Cat. No.	Size Square	Size Thick	Nom. Lead Spacing	Tolerance	List Price
.02	DA-203	1/2"	.140"	1/4"	+100—20%	$ .40
.05	DA-503	1/2"	.160"	3/32"	+100—20%	.65
.1	DA-104	1/2"	.187"	3/32"	+100—20%	.95

Type DDA "Transistor Circuit" Disc Capacitors
75 V.D.C.W. — 150 V.D.C. test

Cap. Mfd.	Cat. No.	Nom. Diam.	Thick	Nom. Lead Spacing	Tolerance	List Price
.05	DDA-503	5/8"	5/32"	3/8"	+80—30%	$ .50
.1	DDA-104	5/8"	5/32"	3/8"	+80—30%	.90

TYPE DM MIN-KAPS
150 V.D.C.W. — 300 V.D.C. test

Miniature plate capacitors 17/32" long, 7/32" wide, 7/64" thick. Triple Durez insulated. Stamped with capacity. Packaged 5 units per package except DM-103 and DM2-502 which are packaged singly.

Cap. Mmf.	Cat. No.	V.D.C.W.	Tolerance	List Price
100	DM-101	150	+50—20%	$ .35
200	DM-201	150	+50—20%	.35
300	DM-301	150	+50—20%	.35
500	DM-501	150	+50—20%	.35
Mfd.				
.001	DM-102	150	+50—20%	.45
.002	DM-202	150	+50—20%	.45
.003	DM-302	150	+80—20%	.45
.005	DM-502	150	+80—20%	.45
.01	DM-103	150	+80—20%	.65
2 x .005	DM2-502	150	+80—20%	.90

TYPE DDM MIN-KAPS
150 V.D.C.W. — 300 V.D.C. test

Designed for applications where voltages are higher and proper safety factors will not permit the use of lower voltage units. Double Durez insulated. Stamped with capacity. Packaged 5 units per package.

Cap. Mfd.	Cat. No.	Diam.	Thick	Nom. Lead Spacing	Tolerance	List Price
.005	DDM-502	3/8"	.146"	1/4"	+60—40%	$ .50
.01	DDM-103	3/8"	.146"	1/4"	+60—40%	.50
.02	DDM-203	3/8"	.166"	5/16"	+60—40%	.90
2 x .01	DDM2-103	3/8"	.166"	3/32"	+60—40%	.90

TYPE DD2-DD3 DUO-KAPS
600 V.D.C.W. — 1200 V.D.C. test

Type DD2 — single disc dual capacity. Double Durez insulation. Stamped with capacity. Packaged 5 units per package.

Cap. Mfd.	Cat. No.	Nom. Diam.	Thick	Nom. Lead Spacing	Tolerance	List Price
2 x .001	DD2-102	3/8"	3/32"	3/32"	GMV	$ .40
2 x .0015	DD2-152	5/16"	3/32"	1/8"	GMV	.40
2 x .005	DD2-502	5/8"	3/32"	1/8"	+80—20%	.40

Type DD3 — Dual disc — Two capacitors in the space required for one standard unit and shielded to minimize stray capacities between discs. Double Durez insulation. Stamped with capacity. Packaged 5 units per package.

Patented Shielded Construction

Cap. Mfd.	Cat. No.	Nom. Diam.	Thick	Nom. Lead Spacing	Tolerance	List Price
2 x .001	DD3-102	3/8"	7/32"	3/32"	GMV	$ .40
2 x .0015	DD3-152	3/8"	7/32"	3/32"	GMV	.40
2 x .002	DD3-202	5/16"	7/32"	1/8"	GMV	.50
2 x .005	DD3-502	5/16"	7/32"	1/8"	GMV	.50
2 x .01	DD3-103	5/8"	7/32"	1/8"	GMV	.50

TYPE DF FLAT PLATE HI-KAPS
600 V.D.C.W. — 1200 V.D.C. test

High capacity, low mass weight, unusual thin design plus inherent Centralab ceramic stability and permanence have made these units extremely popular as by-pass and filter capacitors and are excellent for audio coupling applications. No. 20 tinned wire leads. Packaged 5 units per package.

Cap. Mfd.	Cat. No.	Max. Dimensions	Nom. Lead Spacing	Tolerance	List Price
.03	DF-303	17/64" x 13/64" x 7/32"	7/8"	GMV	$ .90
.04	DF-403	17/64" x 13/64" x 7/32"	7/8"	GMV	.90
.05	DF-503	17/64" x 13/64" x 7/32"	7/8"	GMV	.90
.075	DF-753	17/64" x 13/64" x 19/64"	7/8"	GMV	1.25
.1	DF-104	17/64" x 13/64" x 19/64"	7/8"	+80—20%	1.25

Centralab®

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CERAMIC CAPACITORS *(Cont'd)*

CERAMIC DISC HI-KAPS®

Centralab ceramic disc capacitors ideal for by-pass, coupling and filter applications. Type DD 1000 V.D.C. (except DD6-103, DD-153, DD-203, DD-303, DD-403, DD-503) which are 600 V.D.C.W.

Cap. Mmf.	Cat. No.	Tolerance	Diam.
3.3	DD-3R3	±.5 Mmf.	¼"
5	DD-050	±10%	¼"
6	DD-060	±10%	¼"
6.8	DD-6R8	±10%	¼"
7.5	DD-7R5	±10%	¼"
8	DD-080	±10%	¼"
10	DD-100	±10%	¼"
12	DD-120	±10%	¼"
15	DD-150	±10%	¼"
18	DD-180	±10%	¼"
20	DD-200	±10%	¼"
22	DD-220	±10%	¼"
24	DD-240	±10%	¼"
25	DD-250	±10%	¼"
27	DD-270	±10%	¼"
30	DD-300	±10%	¼"
33	DD-330	±10%	¼"
39	DD-390	±10%	¼"
47	DD-470	±10%	¼"
50	DD-500	±10%	¼"
51	DD-510	±10%	¼"
56	DD-560	±10%	¼"
68	DD-680	±10%	¼"
75	DD-750	±10%	¼"
82	DD-820	±10%	¼"
91	DD-910	±10%	¼"
100	DD-101	±10%	¼"
120	DD-121	±10%	¼"
130	DD-131	±10%	¼"
150	DD-151	±10%	¼"
180	DD-181	±10%	¼"
200	DD-201	±10%	¼"
220	DD-221	±10%	¼"
240	DD-241	±10%	¼"
250	DD-251	±10%	¼"
270	DD-271	±10%	¼"
300	DD-301	±10%	¼"
330	DD-331	±10%	¼"
350	DD-351	±10%	¼"
360	DD-361	±10%	¼"
390	DD-391	±10%	¼"
400	DD-401	±10%	¼"
470	DD-471	±10%	¼"
470	DD-471G	GMV	¼"
500	DD-501	±10%	¼"
510	DD-511	±10%	¼"
560	DD-561	±10%	¼"
600	DD-601	±10%	¼"
680	DD-681	±10%	¼"
750	DD-751	±10%	¼"
800	DD-801	GMV	¼"
820	DD-821	±10%	¼"
910	DD-911	±10%	¼"

Cap. Mfd.	Cat. No.	Tolerance	Diam.
.001	DD-102	±10%	3/16"
.001	DD-102G	GMV	1/8"
.0012	DD-122	±10%	3/16"
.0012	DD-122G	GMV	1/8"
.0013	DD-132	±10%	3/16"
.0015	DD-152	±10%	3/16"
.0015	DD-152G	GMV	¼"
.0016	DD-162	±10%	3/16"
.0018	DD-182	±10%	3/16"
.002	DD-202	GMV	3/16"
.0022	DD-222	GMV	3/16"
.0025	DD-252	GMV	3/16"
.0027	DD-272	GMV	3/16"
.003	DD-302	GMV	3/16"
.0033	DD-332	GMV	3/16"
.0039	DD-392	GMV	3/16"
.004	DD-402	GMV	3/16"
.0043	DD-432	GMV	3/16"
.0047	DD-472	±20%	3/16"
.0047	DD-472G	GMV	3/16"
.005	DD-5022	±20%	3/16"

Cap. Mmf.	Cat. No.	Tolerance	Diam.
.005	DD-502	GMV	3/16"
.0056	DD-562	GMV	3/16"
.0068	DD-682	GMV	3/16"
.0075	DD-752	GMV	3/16"
.0082	DD-822	GMV	3/16"
.01	DD6-103	GMV	3/16"
.01	*DD-1032	±20%	1/8"
.01	.....	±20%	3/16"
.01	DD-103	GMV	1/8"
.015	*DD-153	+80%—20% GMV	¼"
.02			5/16"
.02	*DD-203	+80%—20%	1/8"
.03	**DD-303	+80%—20%	1/8"
.04	**DD-403	+80%—20%	1/8"
.05	**DD-503	+80%—20%	1/8"

Type DD: List Price $1.25 package of 5 except *$1.50 package of 5 and **$2.50 package of 5.

DD30 AND DD60 HIGH VOLTAGE HI-KAPS®

DD30 (3KV) and DD60 (6KV) high voltage disc Hi-Kaps are highly efficient for by-pass and coupling in high frequency circuits under extreme temperature and humidity. All units ±20% tolerance. DD30 series — 3000 volts DC working, 6000 volts DC test. DD60 series — 6000 volts DC working, 1200 volts DC test, double coated durez insulation.

Cap. Mmf.	Cat. No.	Diam.	Cat. No.	Diam.
4.7	DD30-4R7	¼"	DD60-4R7	5/16"
6.8	DD30-6R8	¼"	DD60-6R8	5/16"
8.2	DD30-8R2	¼"	DD60-8R2	5/16"
10	DD30-100	¼"	DD60-100	5/16"
12	DD30-120	¼"	DD60-120	5/16"
15	DD30-150	¼"	DD60-150	5/16"
22	DD30-220	¼"	DD60-220	5/16"
25	DD30-250	¼"	DD60-250	5/16"
27	DD30-270	¼"	DD60-270	5/16"
30	DD30-300	¼"	DD60-300	5/16"
33	DD30-330	¼"	DD60-330	5/16"
39	DD30-390	¼"	DD60-390	5/16"
47	DD30-470	¼"	DD60-470	5/16"
50	DD30-500	¼"	DD60-500	5/16"
56	DD30-560	¼"	DD60-560	5/16"
68	DD30-680	¼"	DD60-680	5/16"
75	DD30-750	¼"	DD60-750	5/16"
82	DD30-820	¼"	DD60-820	5/16"
100	DD30-101	¼"	DD60-101	5/16"
120	DD30-121	¼"	DD60-121	5/16"
150	DD30-151	¼"	DD60-151	5/16"
180	DD30-181	¼"	DD60-181	5/16"
200	DD30-201	¼"	DD60-201	5/16"
220	DD30-221	¼"	DD60-221	5/16"
250	DD30-251	¼"	DD60-251	5/16"
270	DD30-271	¼"	DD60-271	5/16"
300	DD30-301	¼"	DD60-301	5/16"
330	DD30-331	¼"	DD60-331	5/16"
390	DD30-391	¼"	DD60-391	5/16"
400	DD30-401	¼"	DD60-401	5/16"
470	DD30-471	3/8"	DD60-471	5/16"
500	DD30-501	3/8"	DD60-501	5/16"
560	DD30-561	3/8"	DD60-561	5/16"
680	DD30-681	3/8"	DD60-681	5/16"
750	DD30-751	3/8"	DD60-751	5/16"
820	DD30-821	3/8"	DD60 821	5/16"

Cap. Mfd.	Cat. No.	Diam.	Cat. No.	Diam.
.001	DD30-102	5/16"	**DD60-102	3/4"
.0012	DD30-122	5/16"	**DD60-122	3/4"
.0015	DD30-152	5/16"	**DD60-152	3/4"
.002	DD30-202	5/16"	**DD60-202	7/8"
.0022	DD30-222	5/16"	**DD60-222	7/8"
.0025	DD30-252	5/16"		
.0027	DD30-272	5/16"		
.003	*DD30-302	3/4"		
.0033	*DD30-332	7/8"		
.0039	*DD30-392	7/8"		
.0047	*DD30-472	7/8"		
.005	*DD30-502	7/8"		

Type DD30: List Price $2.00 per pkg. of 5, except *$2.50 per pkg. of 5.

Type DD60: List Price $2.50 per pkg. of 5, except **$4.25 per pkg. of 5.

Centralab®
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CERAMIC CAPACITORS (Cont'd)

TC TEMPERATURE COMPENSATING TUBULARS

TC capacitors are used mostly in frequency determining circuits. 600 volts DC working, 1200 volts DC test. Made to JAN-C-20A specifications.

TCZ TUBULAR HI-KAPS®

NPO or Zero TC show Zero capacitance change over temperature range −20° to +85°C. Left end coded black.

Cap. Mmf.	Tolerance	Cat. No.	Size Type
.5	±.25 mmf	TCZ-R5	CC20
.68	±.25 mmf	TCZ-R68	CC20
1.0	±.25 mmf	TCZ-1	CC20
1.5	±.25 mmf	TCZ-1R5	CC20
2.2	±.25 mmf	TCZ-2R2	CC20
3.3	±.25 mmf	TCZ-3R3	CC20
4.7	±.5 mmf	TCZ-4R7	CC20
6.8	±.5 mmf	TCZ-6R8	CC20
10	±.5 mmf	TCZ-10	CC20
12	±2%	TCZ-12	CC20
15	±2%	TCZ-15	CC20
18	±2%	TCZ-18	CC20
20	±2%	TCZ-20	CC20
22	±2%	TCZ-22	CC20
24	±2%	TCZ-24	CC20
25	±2%	TCZ-25	CC20
27	±2%	TCZ-27	CC20
30	±2%	TCZ-30	CC20
33	±2%	TCZ-33	CC20
36	±2%	TCZ-36	CC20
39	±2%	TCZ-39	CC20
43	±2%	TCZ-43	CC25
47	±2%	TCZ-47	CC25
50	±2%	TCZ-50	CC25
51	±2%	TCZ-51	CC25
56	±2%	TCZ-56	CC25
62	±2%	TCZ-62	CC25
68	±2%	TCZ-68	CC25
75	±2%	TCZ-75	CC25
82	±2%	TCZ-82	CC25
91	±2%	TCZ-91	CC32
100	±2%	TCZ-100	CC32
110	±5%	*TCZ-110	CC35
120	±5%	*TCZ-120	CC35
130	±5%	*TCZ-130	CC35
150	±5%	*TCZ-150	CC35
160	±5%	**TCZ-160	CC35
180	±5%	**TCZ-180	CC35
200	±5%	**TCZ-200	CC35
220	±5%	**TCZ-220	CC35
240	±5%	**TCZ-240	CC45
270	±5%	**TCZ-270	CC45
300	±5%	**TCZ-300	CC45

List Price $.50 ea., except *$.75 ea. and **$1.00 ea.

TCN TUBULAR HI-KAPS®

N750 TC Capacitors. Show negative capacity of minus 750 parts per million per degree C rise in temperature. Left end coded violet.

Cap. Mmf.	Tolerance	Cat. No.	Size Type
3.3	±.5 mmf	TCN-3R3	CC20
5	±.5 mmf	TCN-5	CC20
10	±.5 mmf	TCN-10	CC20
12	±2%	TCN-12	CC20
15	±2%	TCN-15	CC20
18	±2%	TCN-18	CC20
20	±2%	TCN-20	CC20
22	±2%	TCN-22	CC20
24	±2%	TCN-24	CC20
25	±2%	TCN-25	CC20
27	±2%	TCN-27	CC20
30	±2%	TCN-30	CC20
33	±2%	TCN-33	CC20
36	±2%	TCN-36	CC20
39	±2%	TCN-39	CC20
43	±2%	TCN-43	CC20
47	±2%	TCN-47	CC20
50	±2%	TCN-50	CC20
51	±2%	TCN-51	CC20
56	±2%	TCN-56	CC20
62	±2%	TCN-62	CC20
68	±2%	TCN-68	CC20
75	±2%	TCN-75	CC20
82	±2%	TCN-82	CC20
91	±2%	TCN-91	CC20
100	±2%	TCN-100	CC20
110	±5%	TCN-110	CC25
120	±5%	TCN-120	CC25
130	±5%	TCN-130	CC25
150	±5%	TCN-150	CC25
160	±5%	TCN-160	CC25
180	±5%	TCN-180	CC25
200	±5%	TCN-200	CC25
220	±5%	TCN-220	CC32
240	±5%	TCN-240	CC32
270	±5%	TCN-270	CC32
300	±5%	*TCN-300	CC35
330	±5%	*TCN-330	CC35
360	±5%	*TCN-360	CC35
390	±5%	*TCN-390	CC35
430	±5%	*TCN-430	CC35
470	±5%	**TCN-470	CC35
510	±5%	**TCN-510	CC35
560	±5%	**TCN-560	CC35
620	±5%	**TCN-620	CC45
680	±5%	**TCN-680	CC45
750	±5%	**TCN-750	CC45

List Price $.50 ea., except *$.75 ea. and **$1.00 ea.

SIZE

CC20 — Radial leads. Body Dimension .200" Dia. x .400" length
CC25 — Radial leads. Body Dimension .200" Dia. x .690" length
CC32 — Radial leads. Body Dimension .225" Dia. x .860" length
CC35 — Radial leads. Body Dimension .285" Dia. x 1.165" length
CC45 — Radial leads. Body Dimension .285" Dia. x 1.625" length

TCA — N330 TC UNITS

Cap. Mmf.	Tolerance	CRL Cat. No.	Size Type
10	±.5 mmf	TCA-10	CC20
15	±2%	TCA-15	CC20
22	±2%	TCA-22	CC20
33	±2%	TCA-33	CC20
47	±2%	TCA-47	CC20
68	±2%	TCA-68	CC20
100	±2%	TCA-100	CC25

List Price Type TCA $.50 ea.

TCL — N1500 TC UNITS

Cap. Mmf.	Tolerance	CRL Cat. No.	Size Type
10	±.5 mmf	TCL-10	CC20
15	±2%	TCL-15	CC20
22	±2%	TCL-22	CC20
33	±2%	TCL-33	CC20
47	±2%	TCL-47	CC20
68	±2%	TCL-68	CC20
100	±2%	TCL-100	CC20

List Price Type TCL $.50 ea.

TEMPERATURE COMPENSATING DISC CAPACITORS

Centralab's disc type temperature compensating capacitors are fast becoming the most popular unit to replace mica types in all applications. Because of the inherent stability of TC ceramic dielectric material and smaller size, Centralab DTZ and DTN find many applications in frequency determining and resonant circuits — BETTER THAN MICA FOR ALL APPLICATIONS. All 600 volt DC working, 1200 volts DC test.

TYPE DTZ — NPO OR ZERO TC DISC HI-KAPS

Cap. Mmf.	Cat. No.	Tolerance	Diameter	Thickness
1.5	DTZ-1R5	±.5 mmf	1/4"	5/32"
2.2	DTZ-2R2	±.5 mmf	1/4"	5/32"
3.3	DTZ-3R3	±.5 mmf	1/4"	5/32"
4.7	DTZ-4R7	±.5 mmf	1/4"	5/32"
6.8	DTZ-6R8	±.5 mmf	1/4"	5/32"
10	DTZ-10	±5%	1/4"	5/32"
15	DTZ-15	±5%	1/4"	5/32"
20	DTZ-20	±5%	1/4"	5/32"
22	DTZ-22	±5%	3/8"	5/32"
25	DTZ-25	±5%	3/8"	5/32"
33	DTZ-33	±5%	3/8"	5/32"
47	DTZ-47	±5%	3/8"	5/32"
50	DTZ-50	±5%	7/16"	5/32"
68	DTZ-68	±5%	7/16"	5/32"
75	DTZ-75	±5%	7/16"	5/32"
82	DTZ-82	±5%	7/16"	5/32"
100	DTZ-100	±5%	7/16"	5/32"
120	*DTZ-120	±5%	5/8"	5/32"
150	*DTZ-150	±5%	5/8"	5/32"
180	*DTZ-180	±5%	7/16"	7/32"
200	*DTZ-200	±5%	7/16"	7/32"
220	*DTZ-220	±5%	5/8"	7/32"
270	**DTZ-270	±5%	5/8"	7/32"

List Price $.50 ea.,except *$.60 ea., **$.80 ea.

TYPE DTN — N750 TC DISC HI-KAPS

Cap. Mmf.	Cat. No.	Tolerance	Diameter	Thickness
5	DTN-5	±.5 mmf	1/4"	5/32"
10	DTN-10	±.5 mmf	1/4"	5/32"
15	DTN-15	±5%	1/4"	5/32"
20	DTN-20	±5%	1/4"	5/32"
22	DTN-22	±5%	1/4"	5/32"
25	DTN-25	±5%	1/4"	5/32"
33	DTN-33	±5%	1/4"	5/32"
47	DTN-47	±5%	1/4"	5/32"
68	DTN-68	±5%	3/8"	5/32"
75	DTN-75	±5%	3/8"	5/32"
100	DTN-100	±5%	3/8"	5/32"
150	DTN-150	±5%	3/8"	5/32"
200	DTN-200	±5%	7/16"	5/32"
220	DTN-220	±5%	7/16"	5/32"
330	DTN-330	±5%	5/8"	5/32"

List Price $.50 ea.

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CERAMIC CAPACITORS (Cont'd)

D6 TUBULAR CERAMIC BC HI-KAPS®

These ceramic tubular Hi-Kaps are primarily for by-pass and coupling or filter applications. Double coated durez insulation. 600 volts DC working, 1200 volts DC tested. Packaged 5 per package.

Cap. Mmf.	Tolerance	Size	Cat. No.
3	±.5 mmf	A	D6-030
5	±10%	A	D6-050
10	±10%	A	D6-100
12	±10%	A	D6-120
15	±10%	A	D6-150
18	±10%	A	D6-180
20	±10%	A	D6-200
22	±10%	A	D6-220
25	±10%	A	D6-250
27	±10%	A	D6-270
33	±10%	A	D6-330
39	±10%	A	D6-390
40	±10%	A	D6-400
47	±10%	A	D6-470
50	±10%	A	D6-500
56	±10%	A	D6-560
68	±10%	A	D6-680
75	±10%	A	D6-750
82	±10%	A	D6-820
91	±10%	A	D6-910
100	±10%	A	D6-101
120	±10%	A	D6-121
150	±10%	A	D6-151
180	±10%	A	D6-181
200	±10%	A	D6-201
220	±10%	A	D6-221
250	±10%	A	D6-251
270	±10%	A	D6-271
300	±10%	A	D6-301
330	±10%	A	D6-331
390	±10%	A	D6-391
400	±10%	A	D6-401
470	±10%	A	D6-471
500	±10%	A	D6-501
560	±10%	B	D6-561
600	±10%	B	D6-601
680	±10%	B	D6-681
750	±20%	A	D6-751
820	±20%	A	D6-821
Mfd.			
.001	±20%	A	D6-102
.0012	±20%	A	D6-122
.0015	±20%	A	D6-152
.0018	±20%	A	D6-182
.002	±20%	B	D6-202
.0022	±20%	B	D6-222
.0025	GMV	B	D6-252
.0027	GMV	B	D6-272
.003	GMV	B	D6-302
.0033	GMV	B	D6-332
.004	GMV	B	D6-402
.0047	GMV	C	D6-472
.005	GMV	C	D6-502
.0056	GMV	C	*D6-562
.0068	GMV	D	*D6-682
.0075	GMV	D	*D6-752
.01	GMV	D	*D6-103

BODY DIMENSIONS

A = .260″ diam. x .460″ length C = .280″ diam. x .900″ length

B = .260″ diam. x .790″ length D = .330″ diam. x 1.210″ length

List Price: $1.25 package of 5, except *$2.75 package of 5.

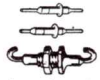
TYPE DD16 — HI-KAP BUFFERS

1600 V.D.C.W. — 3000 V.D.C.T., 1500 V.A.C test in accordance with U.L. requirements

Hi-K ceramic material double coated with special phenolic resin durez insulation against humidity and vibration. Used mostly as buffers in auto radio sets.

Cap. Mfd.	Cat. No.	Diam.	Thick.	Tolerance	List Price Pkg. of 5
.003	DD16-302	7/8″	11/64″	GMV	$1.75
.004	DD16-402	7/8″	11/64″	GMV	1.75
.005	DD16-502	7/8″	11/64″	GMV	1.75
.006	DD16-602	7/8″	11/64″	GMV	1.75
.007	DD16-702	7/8″	11/64″	GMV	1.75
.0075	DD16-752	7/8″	11/64″	GMV	1.75
.008	DD16-802	7/8″	11/64″	GMV	1.75
.01	DD16-103	7/8″	11/64″	GMV	1.75
.015	DD16-153	7/8″	1/4″	+80—20%	3.00

CERAMIC FEED-THRU CAPACITORS



Type FT bushing mounted capacitors are specifically designed for high frequency circuits where in addition to feed-thru, a capacity ground to either chassis or shield as desired. Type MFT is a condensed version of above where space is at a premium. Voltage 500 volts DC working — 1000 volts DC test for both styles.

TYPE FT

Cap. Mmf.	Cat. No.	Tolerance
500	FT-500	±20%
1000	FT-1000	±20%
1500	FT-1500	+50—20%
1800	FT-1800	+50—20%
2300	FT-2300	+50—20%

List Price: $1.00 ea.

TYPE MFT

Cap. Mmf.	Cat. No.	Tolerance
50	MFT-50	±10%
100	MFT-100	±10%
500	MFT-500	±20%
1000	MFT-1000	GMV

List Price: $.50 ea.

TYPE ZA AND ZB Button-Style Ceramics

Type ZA and ZB, solder sealed button type ceramic capacitors provide accurate, dependable, long life replacements for old style mica "buttons." The shell is effective at ground potential in all styles. Voltage — 500 volts DC working — 1000 volts DC test. Mounting: ZA — stand-off type has No. 3 — 48 thread tapped base and ground terminal. ZB — Feed-Thru style with 3 solder lugs.

TYPE ZA — TAPPED Ground Terminal

Cap. Mmf.	Cat. No.	Tolerance
15	ZA-150	±10%
50	ZA-500	±10%
500	ZA-501	±20%
1000	ZA-102	GMV

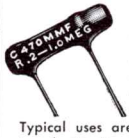
List Price: $1.25 ea.

TYPE ZB — RIM TYPE Feed-Thru

Cap. Mmf.	Cat. No.	Tolerance
15	ZB-150	±10%
50	ZB-500	±10%
500	ZB-501	±20%
1000	ZB-102	GMV

List Price: $1.25 ea.

TYPE RC — TUBE-R-CAP**



The Tube-R-Cap is a radial lead ceramic tubular capacitor and resistor in parallel in the same space as a tubular capacitor alone. Permanent bonding of the resistor and capacitor minimizes chance of shorts or opens. Ideal for printed circuit boards. Typical uses are Grid Resistor, Cathode By-pass, Resistor loaded tuned circuit, plate load resistor with R.F. by-pass and tone compensation.

Cat. No.	C1 Mmf.	Tolerance	R1 Ohms	Tolerance	Max. Lgth.	Max. Diam.
RC-421	56	±10%	47K	±20%	.503″	.260″
RC-428	150	GMV	3.3 Meg.	±30%	.790″	.260″
RC-431	330	±20%	220K	±20%	.790″	.260″
RC-465	470	±20%	470K	±20%	.503″	.260″
RC-471	470	GMV	.3-1 Meg.	—	.910″	.280″
RC-476	800	GMV	22K	±20%	.503″	.260″
RC-485	4700	+80—20%	180	±20%	.790″	.260″
RC-490	4700	+80—20%	.75-1.5 Meg.	—	.910″	.330″

List Price: $1.50 package of 5.

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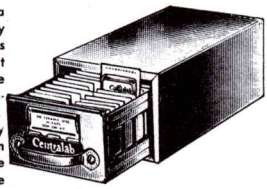
CERAMIC CAPACITORS *(Cont'd)*

CERAMIC CAPACITOR KITS



Each of these kits contain a carefully balanced inventory of disc or tubular capacitors required most in replacement applications. All kits utilize the sturdy, convenient Centralab patented plastic pack age. Value desired can easily be located and removed from these clearly labeled reusable packages. Packages are housed in a 6" x 4" x 11" one drawer heavy gauge steel cabinet, finished with durable blue enamel.

KIT NO. DDK-200
200 Disc Capacitors, 31 Assorted Values

Cap. Mmf.	Qty.	Cat. No.	Cap. Mmf.	Qty.	Cat. No.
5	5	DD-050	330	5	DD-331
10	5	DD-100	390	5	DD-391
25	5	DD-250	470	5	DD-471
33	5	DD-330	500	5	DD-501
47	5	DD-470	680	5	DD-681
50	5	DD-500	Mfd.		
68	5	DD-680	.001	15	DD-102
100	10	DD-101	.0015	5	DD-152
120	5	DD-121	.003	5	DD-302
150	5	DD-151	.0047	5	DD-472
180	5	DD-181	.005	5	DD-5022
200	10	DD-201	.005	10	DD-502
220	5	DD-221	.01	5	DD6-103
250	5	DD-251	.01	15	DD-103
270	5	DD-271	.01	5	DD-1032
300	5	DD-301	.02	15	DD-203

List Price: $51.00

KIT NO. D6K-200
200 Tubular Capacitors, 27 Assorted Values
All 600 V.D.C.W.

Cap. Mmf.	Qty.	Cat. No.	Cap. Mmf.	Qty.	Cat. No.
5	5	D6-050	250	5	D6-251
10	10	D6-100	270	5	D6-271
15	5	D6-150	330	5	D6-331
22	5	D6-220	390	5	D6-391
25	5	D6-250	470	5	D6-471
33	5	D6-330	500	15	D6-501
47	5	D6-470	680	5	D6-681
50	10	D6-500	Cap. Mfd.		
82	5	D6-820	.001	15	D6-102
100	15	D6-101	.0015	5	D6-152
150	5	D6-151	.002	10	D6-202
180	5	D6-181	.0047	5	D6-472
200	5	D6-201	.005	15	D6-502
220	5	D6-221	.01	15	D6-103

List Price: $54.50

KIT NO. HVK-150
150 High Voltage Capacitors, 17 Assorted Values
1.6 KV, 3 KV and 6 KV

Cap. Mfd.	Qty.	Cat. No.	Cap. Mfd.	Qty.	Cat. No.
.003	10	DD16-302	.002	5	DD30-202
.004	10	DD16-402	.001	5	DD60-102
.005	10	DD16-502	.0015	5	DD60-152
.006	10	DD16-602	Mmf.		
.007	10	DD16-702	47	5	DD30-470
.0075	10	DD16-752	100	5	DD30-101
.008	10	DD16-802	470	5	DD30-471
.01	20	DD16-103	82	5	DD60-820
.015	10	DD16-153	100	5	DD60-101
.001	5	DD30-102	500	5	DD60-501

List Price: $63.50

KIT NO. TCK-80
80 Temperature Compensating Capacitors
28 Assorted Values, All 600 V.D.C.W.

Cap. Mmf.	Qty.	Cat. No.	Cap. Mmf.	Qty.	Cat. No.
3.3	2	TCN-3R3	.68	2	TCZ-R68
5	2	TCN-5	1	2	TCZ-1
10	2	TCN-10	1.5	2	TCZ-1R5
15	2	TCN-15	2.2	2	TCZ-2R2
20	2	TCN-20	3.3	2	TCZ-3R3
22	2	TCN-22	4.7	2	TCZ-4R7
33	2	TCN-33	6.8	2	TCZ-6R8
39	2	TCN-39	10	2	TCZ-10
47	2	TCN-47	12	2	TCZ-12
50	2	TCN-50	15	2	TCZ-15
51	2	TCN-51	18	2	TCZ-18
56	2	TCN-56	20	2	TCZ-20
82	2	TCN-82	22	2	TCZ-22
100	2	TCN-100	33	2	TCZ-33
150	2	TCN-150	47	2	TCZ-47
180	2	TCN-180	50	2	TCZ-50
330	2	TCN-330	51	2	TCZ-51
390	2	TCN-390	82	2	TCZ-82
470	2	TCN-470	100	2	TCZ-100
750	2	TCN-750	180	2	TCZ-180

List Price: $44.00

TYPE TV-20 HI-VO-KAPS®

TOLERANCE: +50—20%.
MATERIAL: Hi-K Ceramic. Molded plastic insulation.
TERMINALS: Attachable — see illustration.
MARKING: Stamped with capacity, voltage and part number.
PACKAGING: Singly without terminals — terminals ordered separately under TX numbers.

Type TV-20 (less terminals)

Cap. Mmf.	V.D.C.W.	V.D.C.T.	Catalog Number
500	20,000	35,000	TV-20

List Price: $1.85

Precision Attachable Terminals

Type	Thread	Catalog Number
Slotted-Rod	....	TX-1
Female tap	6-32	TX-2
Male threaded	6-32	TX-3
Short male threaded	8-32	TX-4
Long male threaded	8-32	TX-5

List Price: $.50 pkg. of 5.

TYPE TV-207 HI-VO-KAPS®
(with terminals)

Each TV-207 includes one TV-20 and 1 each: TX-1, TX-4, TX-5; 2 each: TX-2, TX-3 per carton or handy "Shelf-Pak" containing 5 individual cartoned TV-207's.

List Price: .$2.25

TVK-5-50 KIT

Handy serviceman's kit of Hi-Vo-Kaps® and attachable terminal in hinged clear plastic box. Each kit contains 5 each: TV-20; 10 each: TX-1, TX-2, TX-3, TX-4, TX-5 attachable terminals.

List Price: $11.25

FIXED TERMINAL HI-VO-KAPS®
30KV Working — 45KV Test

Cap. Mmf.	V.D.C.W.	V.D.C.T.	Terminals	Cat. No.
500	30,000	45,000	2-rod type	TV1-503
500	30,000	45,000	2-8-32 male thrd.	TV8-503

List Price: $3.30

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CERAMIC CAPACITORS *(Cont'd)*

CERAMIC TRIMMER CAPACITORS

Centralab Ceramic Trimmers are small in size, light in weight and are easily mounted. Equal stability over 180° rotation is maintained even under adverse environmental conditions.

Simplicity of mechanical design makes Centralab Ceramic Tubular Trimmer Capacitors a dependable and economical approach to fine tuning. They are specifically designed to compensate for variations in tube capacities. Because of this smooth linear rate of capacity change, the ceramic tubular trimmer has also found ready acceptance in precision applications. All units 600 volts DC working — 1200 volts DC test.

TYPE 820 TRIMMER

Mounting holes (with bracket removed) clear No. 4 machine screws. Basic dimensions: 5/8" wide x 27/32" long.

Cap. Mmf.	Cat. No.	Cap. Mmf.	Cat. No.
1.0 to 3.5	820D	35.0 to 55.0	820E*
2.5 to 6.0	820A	55.0 to 75.0	820F*
5.0 to 20.0	820B	70.0 to 90.0	820G*
7.0 to 35.0	820C	*Less bracket.	

List Price: $1.20 ea.

TYPE 822 CERAMIC TRIMMER

Mounting holes clear No. 4 machine screws. Basic body size 41/64" wide x 27/32" long.

NPO or Zero TC		N650 or Negative TC	
Cap. Mmf.	Cat. No.	Cap. Mmf.	Cat. No.
1.5 to 3	822-DZ	2.0 to 6.0	822-DN
1.5 to 7	822-EZ	4.0 to 30.0	822-EN
2.0 to 7.5	822-CZ	4.5 to 25.0	822-CN
2.5 to 13.0	822-BZ	7.0 to 45.0	822-BN
3.0 to 12.0	822-FZ	8.0 to 50.0	822-AN
4.5 to 25.0	822-AZ		

List Price: $1.50 ea.

TYPE 823 CERAMIC TRIMMER

Mounting studs are set in base, tapped for No. 4-40 machine screws. Body size 15/16" wide x 1 9/32" long.

NPO or Zero TC		N650 or Negative TC	
Cap. Mmf.	Cat. No.	Cap. Mmf.	Cat. No.
5.0 to 12	823-EZ	5.0 to 15	823-FN
6 to 25	823-DZ	8 to 25	823-EN
10 to 50	823-BZ	8 to 50	823-DN
12 to 62	823-AZ	10 to 100	823-BN
		20 to 125	823-AN

List Price: $3.50 ea.

Centralab types 824 and 826 available on special order.

TYPE 827 TRIMMER

High grade phenolic mounting plate. Two .122"-.125" mounting holes spaced 5/16". Can be mounted on chassis through 9/16" dia. hole. Body size — 17/32" x 3/4".

Cap. Mmf.	Cat. No.	Cap. Mmf.	Cat. No.
2.5 to 7	827A	6.0 to 30	827C
3.5 to 12	827B	7.0 to 35	827D

List Price: $1.25 ea.

TYPE 833 CERAMIC TRIMMER

Mounting holes clear No. 4 machine screws. Basic body size 41/64" wide x 27/32" long.

NOTE: CV11D — Series listed below are approved per MIL-C-81A. CV11A — Series manufactured to meet MIL-C-81A. Approval still pending.

NPO or Zero TC			N650 or Negative TC		
Cap. Mmf.	Cat. No.	to MIL-C-81A Number	Cap. Mmf.	Cat. No.	to MIL-C-81A Number
1.5 to 7	833-EZ	CV11A070	2 to 6	833-DN	CV11D060
3 to 12	833-FZ	CV11A120	4 to 30	833-EN	CV11D300
4.5 to 25	833-AZ	CV11A250	7 to 45	833-BN	CV11D450

List Price: $2.50 ea.

TYPE 829 CERAMIC TRIMMER

Mounting is by means of a locknut against metal panel or chassis, which has been punched with slot.

Capacity Range Mmf.	Body Length	Cat. No.	List Price
.5 to 3.	1/2"	829-3	$ .50
1. to 4.	1/2"	829-4	.50
1. to 6.	5/8"	829-6	.50
1. to 7.5	3/4"	829-7	.60
1.5 to 10	3/4"	829-10	.60

TRANSMITTING CAPACITORS

Centralab's transmitting capacitors are designed primarily for transmitters, induction heaters, electronic welding equipment, x-ray, diathermy and other high voltage, high frequency circuits. These capacitors have extremely low power factor and stable retrace characteristics. Long leakage paths and rugged mechanical construction are afforded by the "double cup" design. Current ratings are listed for each unit.

TYPE 850-858 — 5 KV AND 7.5 KV

TOLERANCE: 850 type ±10%; 858 type ±20%.
DIMENSIONS: 13/16" diameter, 5/8" long.
MOUNTING: S Series: 1/8" long hex studs tapped 6-32 thread. SL Series: 9/16" long solder lugs with 6-32 tapped hole.

Cap. Mmf.	Volts D.C.W.	Temp. Coeff.	R. F. Load at 30 MC.‡	Cat. No. Stud Type	Cat. No. Lug Type
25	7,500	NPO	7 amps.	850S-25Z	850SL-25Z
50	7,500	NPO	10 amps.	850S-50Z	850SL-50Z
50	7,500	N750	8.8 amps.	850S-50N	850SL-50N
75	7,500	N750	10 amps.	850S-75N	850SL-75N
100	5,000	N750	9.8 amps.	850S-100N	850SL-100N
500	5,000	HI-K	.....	858S-500	.....
1,000	5,000	HI-K	.....	858S-1000	.....

List Price: $4.50 ea.

TYPE 853, 854, 855 — 5 KV

TOLERANCE: ±10%.
DIMENSIONS: 853 — 9/16" dia. x 1/2" long.
854 — 7/16" dia. x 7/16" long.
855 — 5/16" dia. x 3/4" long.
MOUNTING: 853, 854, 855; 1 1/2" axial wire leads. 853A, 854A, 855A: axial screw terminals tapped 2-56.

Cap. Mmf.	Volts D.C.W.	Temp. Coeff.	R. F. Load at 30 MC.‡	Cat. No. Lead Type	Cat. No. Tap Type
3	5,000	NPO	1.8 amps.	855-3Z	855A-3Z
5	5,000	NPO	1.8 amps.	855-5Z	855A-5Z
10	5,000	NPO	1.8 amps.	854-10Z	854A-10Z
10	5,000	N750	3.2 amps.	855-10N	855A-10N
20	5,000	NPO	2.8 amps.	853-20Z	853A-20Z
20	5,000	N750	3.2 amps.	854-20N	854A-20N
40	5,000	N750	5.6 amps.	853-40N	853A-40N

List Price. $3.00 ea.

TYPE 857 — 7.5 KV AND 15 KV

TOLERANCE: ±10%.
DIMENSIONS: Diameter 1 9/32", 1 5/16" long.
MOUNTING: Axial screw terminals, 10-32 NF-2 thread. 1/4" deep full thread. Both ends.

Cap. Mmf.	Volts D.C.W.	Temp. Coeff.	R.F. Load at 30 MC.‡	Catalog Number	List Price
25	15,000	NPO	12 amps.	857-25Z	$14.00
50	15,000	NPO	12 amps.	857-50Z	14.00
100	15,000	N750	14.4 amps.	857-100N	12.00
200	7,500	N750	18.2 amps.	857-200N	12.00

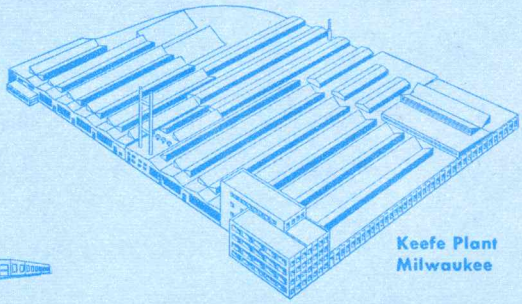
TYPE 859 — 15 AND 20 KV

TOLERANCE: ±10%.
DIMENSIONS: Overall length 2 7/8" nom., diameter 2" nom.
MOUNTING: Terminal ends tapped 10-32 — 7/16" deep both ends.

Cap. Mmf.	Volts D.C.W.	Tolerance	Temp. Coeff.	R. F. Load at 30 MC.‡	Catalog Number
50	20,000	±10%	NPO	30 amps.	859S-50Z
100	20,000	±10%	NPO	30 amps.	859S-100Z
250	20,000	±10%	N750	30 amps.	859S-250N
500	15,000	±10%	N3300	30 amps.	859S-500N

List Price: $90.00 ea.

‡Typical RF characteristics. These are not specific ratings.



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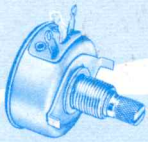

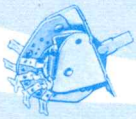

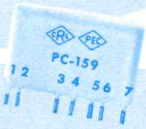
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